# (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 20 February 2003 (20.02.2003)

**PCT** 

# (10) International Publication Number WO 03/014159 A1

- (51) International Patent Classification<sup>7</sup>: C07K 14/705, 14/71, G01N 23/20, 33/566, G06F 19/00, G06N 5/00, G06F 17/40 // 159:00
- (21) International Application Number: PCT/AU02/01042
- (22) International Filing Date: 5 August 2002 (05.08.2002)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PR 6827	3 August 2001 (03.08.2001)	ΑU
PR 6828	3 August 2001 (03.08.2001)	AU
60/336,560	1 November 2001 (01.11.2001)	US
60/335,393	1 November 2001 (01.11.2001)	US
PS 2731	31 May 2002 (31.05.2002)	ΑU
60/388,171	11 June 2002 (11.06.2002)	US

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

03/014159 A1

(54) Title: METHODS OF SCREENING BASED ON THE EGF RECEPTOR CRYSTAL STRUCTURE

(57) Abstract: This invention relates to the structure of members of the epidermal growth factor (EGF) receptor family and to receptor/ligand interactions. In particular, it relates to the field of using the EGF receptor family structure to select and screen for compounds that inhibit the formation of active receptor dimers.

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## Methods of screening based on the EGF receptor crystal structure

### Field of the Invention

This invention relates to the structure of members of the epidermal growth factor (EGF) receptor family and to receptor/ligand interactions. In particular, it relates to the field of using the EGF receptor family structure to select and screen for compounds that inhibit the formation of active receptor dimers.

### 10 Background of the Invention

Epidermal growth factor is a small polypeptide growth factor that stimulates marked proliferation of epithelial tissues and is a member of a larger family of structurally related growth factors such as transforming growth factor  $\alpha$  (TGF $\alpha$ ), amphiregulin, betacellulin, heparin-binding EGF and some viral gene products. Abnormal EGF family signalling is a characteristic of certain cancers (Yarden and Sliwkowski, 2001, Nature Reviews Mol Cell Biol. 2, 127-37; Soler and Carpenter, 1994 In Nicola, N. (ed) "Guidebook to Cytokines and their Receptors", Oxford Univ. Press, Oxford, pp194-197; Walker and Burgess, 1994, In Nicola, N. (ed) "Guidebook to Cytokines and their Receptors", Oxford Univ. Press, Oxford, pp198-201).

The epidermal growth factor receptor (EGFR) is the cell membrane receptor for EGF (Ullrich and Schlessinger, 1990, Cell 61, 203-212). The EGFR also binds other ligands that contain amino acid sequences classified as the EGF-like motif. Other known ligands of the EGFR are amphiregulin (Shoyab et al.,1988, Proc Natl Acad Sci U S A. 85: 6528-6532.; Shoyab et al., 1989, Science. 243: 1074-1076.), heparin-binding epidermal growth factor receptor (Higashiyama et al., 1991, Science. 251: 936-939.), betacellulin (Sasada et al., 1993, Biochem Biophys Res Commun. 190: 1173-1179; Shing et al.,1993, Science. 259: 1604-1607.), epiregulin (Toyoda et al., 1995, J Biol Chem. 270: 7495-7500; Toyoda et al., 1997, Biochem J. 326: 69-75.) and epigen (Strachan et al., 2001, J Biol Chem. 276: 18265-18271.). Among these ligands, the three-dimensional structures of EGF and  $TGF\alpha$  have been determined by NMR (Montelione et al., 1986 PNAS 83(22): 8594-8; Campbell et al., 1989, Prog. Growth Factor Res. 1, 13-22). Upon binding of the ligand to the extracellular domain, the EGFR undergoes dimerization, which eventually leads to the activation of its cytoplasmic protein tyrosine kinase (Ullrich and

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Schlessinger, 1990, Cell 61, 203-212). The EGFR is also known as the ErbB-1 receptor and belongs to the type I family of receptor tyrosine kinases (Ullrich, and Schlessinger, 1990, Cell 61, 203-212). This group also includes the ErbB-2, ErbB-3 and ErbB-4 receptors. No high affinity ligand has yet been found for ErbB-2 (Olayioye et al., 2000, EMBO J. 19: 3159-3167.). The neuregulins are alternatively spliced proteins from one of at least four genes which contain an EGF-motif and bind to ErbB-3 and/or ErbB-4 (Olayioye et al., 2000, EMBO J. 19: 3159-3167). One of the neuregulins known as heregulin-1 $\alpha$  or NDF was found to fold into an EGF-like fold by NMR (Nagata et al., 1994, EMBO J. 13, 3517-3523 and Jacobson et al., 1996, Biochemistry 36, 3402-3417). The EGFR ligands epiregulin, betacellulin and heparin-binding epidermal growth factor receptor also bind to ErbB-4 (Olayioye et al., 2000, EMBO J. 19: 3159-3167.)

The type II family of receptor tyrosine kinases consists of the insulin receptor (INSR), the insulin-like growth factor I receptor (IGF-1), and the insulin receptor-related receptor (Ullrich and Schlessinger, 1990, Cell 61, 203-212). Although the type II receptors consist of four chains ( $\alpha_2\beta_2$ ), both the extracellular portions of the receptors from the two families, as well as the tyrosine kinase portions, share significant sequence homology, suggesting a common evolutionary origin (Ullrich and Schlessinger, 1990, Cell 61, 203-212, and Bajaj et al., 1987, Biochim. Biophys. Acta 916, 220-226).

The 621 amino acid residues of the extracellular domain of the human EGFR (sEGFR) can be subdivided into four domains as follows: L1, S1, L2 and S2, where L and S stand for "large" and "small" domains, respectively (Bajaj et al., 1987, Biochim. Biophys. Acta 916, 220-226, see Fig. 2). The L1 and L2 domains are homologous, as are the S1 and S2 domains.

Ligand-induced dimerization was first reported for the EGF receptor (Schlessinger, 1980, Trends Biochem Sci 13, 443-447) and now is widely accepted as a general mechanism for the transmission of growth stimulatory signals across the cell membrane. Although many biochemical experiments have been performed to reveal the molecular mechanism of receptor dimerization (Lemmon et al., 1997, EMBO J. 16, 281-294 and Tzabar et al., 1997, EMBO J. 16, 4938-4950 and Lax et al., 1991, J. Biol. Chem. 266, 13828-13833), the molecular mechanism by which monomeric ligands induce dimerization is still unknown for members of the EGFR family. Single particle averaging of electron microscopic images suggests that the overall shape of

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the sEGFR is four-lobed and doughnut-like (Lax et al., 1991, J. Biol. Chem. 266, 13828-13833). Small angle x-ray scattering also indicates that the sEGFR can be approximated by a flattened sphere with long diameters of 110 Å and a short diameter of 20 Å (Lemmon et al., 1997, EMBO J. 16, 281-294). The crystallization of sEGFR in complex with EGF has been published (Günther et al., 1990, J. Biol. Chem. 265, 22082-22085; Degenhardt et al., 1998, Acta Crystallogr. D Biol. Crystallogr. 54:999-1001), but the structure has not yet been reported, despite a decade of effort by many groups.

One EGF receptor ligand, TGF- $\alpha$  has been observed to be overproduced in keratinocyte cells which are subject to psoriasis (Turbitt et al., 1990, J. Invest. Dermatol. 95(2), 229-232; Higashimyama et al., 1991, J. Dermatol., 18(2), 117-119; Elder et al, 1990, 94(1), 19-25). The overproduction of at least one other EGF receptor ligand, amphiregulin, has also been implicated in psoriasis. (Piepkorn, 1996, Am. J. Dermatopath., 18(2), 165-171). Molecules that inhibit the EGF receptor have been shown to inhibit the proliferation of both normal keratinocytes (Dvir et al, 1991, J. Cell Biol., 113(4), 857-865) and psoriatic keratinocytes. (Ben-Bassat et al., 1995, Exp. Dermatol., 4(2), 82-88). These findings indicate that EGF receptor antagonists may be useful in the treatment of psoriasis.

Many cancer cells express constitutively active EGFR (Sandgreen et al., 1990, Cell, 61:1121-135; Karnes et al., 1992, Gastroenterology, 102:474-485) or other EGFR family members (Hynes,1993, Semin. Cancer Biol. 4:19-26). Elevated levels of activated EGFR occur in bladder, breast, lung and brain tumours (Harris, et al., 1989, In Furth & Greaves (eds) The Molecular Diagnostics of human cancer. Cold Spring Harbor Lab. Press, CSH, NY, pp353-357). Antibodies to EGFR can inhibit ligand activation of EGFR (Sato et al., 1983 Mol. Biol. Med. 1:511-529) and the growth of many epithelial cell lines (Aboud-Pirak et al., 1988, J. Natl Cancer Inst. 85:1327-1331). Patients receiving repeated doses of a humanised chimeric anti-EGFR monoclonal antibody (Mab) showed signs of disease stabilization. The large doses required and the cost of production of humanised Mab is likely to limit the application of this type of therapy. These findings indicate that the development of EGF receptor antagonists will be attractive anticancer agents.

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#### Summary of the Invention

The present inventors have now obtained three-dimensional structural information concerning a complex of human epidermal growth factor receptor (EGFR) residues 1-501 with human TGFα. In the complex each ligand only contacts one receptor and each receptor fragment contacts only one ligand. The receptor dimer seen in the crystals is a back-to-back dimer (S1 to S1). The co-ordinates for the EGF receptor in back-to-back dimer configuration are shown in Appendix I and Appendix II. Appendix II is a refined version of the co-ordinates presented in Appendix I.

The information presented in this application can be used to predict the structure of related members of the EGF receptor family and the nature of the dimers formed by these receptors. This information can be used to develop compounds which interact with members of the EGF receptor family for use in therapeutic applications.

Accordingly, in a first aspect the present invention provides a method of selecting or designing a compound that interacts with a receptor of the EGF receptor family and modulates an activity associated with the receptor, the method comprising

- (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
  - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
  - (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent threedimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,

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- (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and
- (c) testing the compound for its ability to modulate an activity associated with the receptor.

In a preferred embodiment of the first aspect, the structural coordinates have a root mean square deviation from the backbone atoms of said amino acids of not more than 1.0Å and more preferably not more than 0.7Å.

In one embodiment of the first aspect, the subset of amino acids is selected from the group consisting of the subset of amino acids representing the L1 domain, the subset of amino acids representing the L2 domain and the subset of amino acids representing the S1 domain.

In another embodiment, the subset of amino acids relates to a semi-rigid domain within the EGF receptor, such as a domain based on or about residues 1-84; 191-237; 238-271; 271-284; 285-305 or 313-501; or an equivalent domain of another member of the EGF receptor family.

By "stereochemical complementarity" we mean that the compound or a portion thereof makes a sufficient number of energetically favourable contacts with the receptor as to have a net reduction of free energy on binding to the receptor.

From the information provided in Appendix I and Appendix II it can be seen that  $TGF\alpha$  interacts with residues 1-501 of EGFR such that residues 3-5, 22, 24, 26, 27, 29-34, 36, 38-41, 43, 44, 47 and 49 of  $TGF\alpha$  interact with residues 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 of L1 of EGFR and residues 8, 9, 11-15, 17, 18, 38, 39, 42 and 44-50 of  $TGF\alpha$  interact with residues 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 of L2 of EGFR.

Two residues or groups of residues are taken to "interact" when the solvent accessible surface calculated for one set of residues is reduced if it is recalculated in the presence of the other set of residues. The solvent accessible surface is defined by Lee. B and Richards, F. M. (1971) J. Mol. Biol. 55:379-400 using a probe radius of 1.4 Å.

The ligand binding surfaces of EGFR are therefore defined by residues 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 of L1 and residues 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 of L2. It is believed that corresponding

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regions of other members of the EGF receptor family will also be involved in the binding of their natural ligand.

Accordingly, in one embodiment of the first aspect the compound is selected or designed to interact with a member of the EGF receptor family in a manner such as to interfere with the binding of natural ligand to:-

- (i) one or more of the residues of EGFR selected from the group consisting of 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 and combinations thereof; or
- (ii) the corresponding region of other members of the EGF receptor family.

The compound may interfere with ligand binding to one or more of the specified residues in a number of ways. For example the compound may bind or interact with the receptor at or near one or more of the specified residues or corresponding regions and by steric overlap and/or electrostatic repulsion prevent natural ligand binding. Alternatively the compound may bind to the receptor so as to interfere allosterically with natural ligand binding. For example the compound may bind to the L1 and L2 domains in manner such as to decrease the "gap" between the L1 and L2 domains thereby preventing access of the ligand to one or more of the specified residues.

Alternatively the compound may bind to the receptor so as to interfere allosterically with natural ligand binding. For example:-

- (i) The compound may bind to the L1 and L2 domains in manner such as to decrease the "gap" between the L1 and L2 domains thereby preventing access of the ligand to one or more of the specified residues.
- (ii) The compound may bind at or near the interface between S1 and either L1 or L2 domains to thereby perturb the domain associations as shown in Appendix I and II for the signalling competent ligand-receptor complex.
- (iii) The compound may bind at a site remote from the ligand-binding site but disturb the receptor structure so as to reduce the affinity of ligand binding.

Sites for allosteric interference lie within 5 Å of atomic positions listed in Appendices III and IV.

It is presently preferred, however, that the compound binds or interacts with the receptor at or near one or more of the specified residues or within the corresponding region.

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Accordingly in one embodiment of the first aspect, the receptor is EGFR and topographic region of EGFR to which the compound has stereochemical complementarity is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

The phrase "EGF receptor family" includes, but is not limited to, the EGF receptor, ErbB3 and ErbB4. In general, EGF receptor family molecules show similar domain arrangements and share significant sequence identity, preferably at least 40% identity.

The known natural ligands for these receptors are as follows:

	EGFR	EGF, TGF $\alpha$ , amphiregulin, betacellulin, epiregulin and
		heparin-binding EGF;
	ErbB3	neuregulins 1 and 2;
15	ErbB4	neuregulins 1-4, betacellulin, epiregulin and
		heparin-binding EGF;
	ErbB2	ErbB2 alone has not been reported to bind any ligand with
		high affinity but is preferred heterodimerisation partner for
		the other three EGF receptor family members, enhancing
20		their affinities for their respective ligands and amplifying
		their signals.

The domain structure of the extracellular regions of the EGFR, ErbB-2, ErbB-3 and ErbB-4 are the same. The percentage identities of the sequences corresponding to the first 501 residues of the EGFR are 42-47 % except for that for ErbB-3 and ErbB-4 which is 60 %. Previously, it has been possible to construct models of ErbB-2, ErbB-3 and ErbB-4 based on the structure of the first three domains of the insulin-like growth factor receptor (Garrett et al., (1998) *Nature*. 394: 395-399.) as has been performed for the EGFR (Jorissen et al., (2000) *Protein Sci.* 9: 310-324.) where the sequence identity is approximately 25%. At the higher sequence identity between EGFR and the other EGFR family members, models can be constructed which are expected to have a smaller degree of error (Tramontano A. (1998) *Methods*. 14: 293-300).

A sequence alignment between the four EGFR family members is shown in Figure 1. Using the information provided in Appendix I Appendix II and the sequence alignment models of other members of the EGF receptor family can be obtained using the methods described in the reference referred to above.

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The structure of the TGF $\alpha$ - EGFR complex also allows construction of the binding of EGFR family ligands to be modelled. Several interactions between TGF $\alpha$  and the sEGFR501 suggest that the observed mode of binding is the same for the EGFR family members and their ligands. There are two mainchain-to-mainchain hydrogen bonds between the EGFR L1 domain and TGF $\alpha$ :EGFR Gln 16.N - TGF $\alpha$  Cys 32.O and Gln 16.O - TGF $\alpha$  Cys 34.N. The sidechain of conserved TGF $\alpha$  residue Arg 42 forms a salt bridge with the sidechain of conserved EGFR residue Asp 355.

The sequence alignment of ligands for EGF receptor family is set out in Figure 2.

The approximate ligand binding regions of ErbB-2, ErbB-3 and ErbB-4 can be deduced using the alignment of their sequences to that of the EGFR (Figure 1) and the EGFR sequences listed earlier (residues 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467). For ErbB-2 (whose N-terminal sequence is taken to be STQV), these residues are 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135, 136, 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475. For ErbB-3 (whose N-terminal sequence is taken to be SEVG), these residues are 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131, 132, 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466. For ErbB-4 (whose N-terminal sequence is taken to be QPSD), these residues are 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468. (Note that the Ntermini correspond to the putative start of the mature proteins according to their entries in the SWISSPROT database at the time of writing.) There are expected to be minor differences in the amino acids of the EGFR family member (including EGFR) which make up the ligand binding site depending on the identity of the ligand and receptor. For example, the EGFR residue Gly 442 is not listed as part of the binding site for bound TGF $\alpha$  but has been implicated in the binding of EGF (Elleman et al., (2001) Biochemistry. 40: 8930-8939.). A comparative model of the EGF - EGFR 1-501 complex shows that part of the sidechain of EGF residue Arg 45 is close to EGFR Gly 442. (The small size of the TGF $\alpha$  Ala 46 sidechain prevents this contact in the TGF $\alpha$  - bound complex.) Other variations in the definition of the ligand binding site for the modelled

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EGFR family member - ligand complex may arise from the variation in the size of the so-called B-loop of some of the EGFR family ligands (Groenen et al., (1994) *Growth Factors*.11: 235-257.).

In a preferred embodiment of the first aspect of the present invention, the method comprises selecting or designing a compound which has portions that match residues positioned on the ligand binding surface of EGFR defined by amino acids 11-18, 20, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438 and 465, or the corresponding regions of other members of the EGF receptor family.

By "match" we mean that the identified portions interact with the surface residues, for example, via hydrogen bonding or by enthalpy-reducing Van der Waals and Coulomb interactions which promote desolvation of the biologically active compound with the receptor, in such a way that retention of the compound by the receptor is favoured energetically.

In a further preferred embodiment of the first aspect, the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M, more preferably the Kd value is less than 10<sup>-8</sup>M and more preferably less than 10<sup>-9</sup>M.

In preferred embodiments of the first aspect of the present invention, the compound is selected or modified from a known compound identified from a data base.

A second aspect of the present invention provides a method of selecting or designing a compound that inhibits the formation of active dimers of receptors of the EGF receptor family, the method comprising:

- (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
  - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or

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- (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent three-dimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,
- (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and
- (c) testing the compound for its ability to inhibit the formation of active dimers of the receptors.

From the information provided in Appendix I and Appendix II it can also be seen that in the EGF dimer residues 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 of the first receptor of the dimer interact with residues 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287 of the second receptor of the dimer. It is believed that corresponding regions of other members of the EGF receptor family will also be involved in the formation of active dimers.

Accordingly, in a further preferred form the compound is selected or designed to interact with a member of the EGF receptor family in a manner such as to interfere with the formation of active dimers by inhibiting interaction of;

- (i) residues 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 of EGFR or the corresponding region of a member of the EGF receptor family; with
- (ii) residues 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287 of EGFR or the corresponding region of a member of the EGF receptor family.

The compound may interfere with dimerization in a number of ways. For example the compound may bind to the EGFR at or near one or more of the specified residues and by steric overlap an/or electrostatic repulsion prevent dimerization. Alternatively the compound may bind to EGFR so as to interfere allosterically with dimer formation.

Accordingly in one preferred embodiment of the second aspect, the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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The regions of ErbB-2, ErbB-3 and ErbB-4 involved in dimerization can also be deduced using the alignment of their sequences to that of the EGFR (Figure 1) and the EGFR sequences listed earlier (residues 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318). For ErbB-2 (whose N-terminal sequence is taken to be STQV), these residues are 36, 84, 201- 203, 211, 212, 236, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295, 326. For ErbB-3 (whose N-terminal sequence is taken to be SEVG), these residues are 41, 89, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287, 317. For ErbB-4 (whose N-terminal sequence is taken to be QPSD), these residues are 40, 88, 195-197, 206, 207, 231, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289, 319. (Note that the N-termini correspond to the putative start of the mature proteins according to their entries in the SWISSPROT database at the time of writing.)

The mode of dimerization seen in the crystal structure is consistent with homodimers and heterodimers of all four EGFR family members. Several residues which appear to be important for maintaining the dimer interface in EGFR are conserved in the EGFR family. The conserved Asn 247 makes sidechain-to-mainchain hydrogen bonds which help to maintain the structure of the loop which interacts with the other EGFR molecule in the dimer. Residues Tyr 251 and Phe 263 are involved in packing interactions across the interface; these residues are either tyrosine or phenylalanine in ErbB-2, ErbB-3 and ErbB-4. The side chain of the conserved residue Tyr 246 makes hydrophobic packing and hydrogen bonding interactions with the other EGFR in the dimer.

As used herein the term "dimer" is intended to cover both homodimers and heterodimers.

By "active dimer" we mean a dimeric form which causes signalling.

In a further embodiment of the second aspect of the present invention, the method comprises selecting or designing a compound which has portions

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that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 or the corresponding regions of other members of the EGF receptor family and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287 or the corresponding regions of other members of the EGF receptor family.

In a preferred embodiment the compound is designed or selected to comprise a first domain which interacts with the dimer interface of a first EGF receptor family member and a second domain which interacts with the dimer interface of a second EGF receptor family member. As will be recognised such a compound will cross-link receptor and prevent formation of active dimers.

In a further preferred embodiment of the second aspect of the present invention, the stereochemical complementarity is such that the compound has a  $K_d$  for the receptor site of less than  $10^{-6}M$ . More preferably, the  $K_d$  value is less than  $10^{-8}M$  and more preferably less than  $10^{-9}M$ .

In preferred embodiments of the second aspect of the present invention, the compound is selected or modified from a known compound identified from a data base.

The information provided in Appendix I and Appendix II also reveals the portions of  $TGF\alpha$  which are involved in receptor binding. With this information  $TGF\alpha$  variants may be designed in which specific residues are modified or altered such that the variant retains is able to bind to one ligand binding surface but not the other. It would be expected that such a variant would compete with the natural ligand for binding to the receptor but that binding of the variant to the receptor would not lead to signalling. Such a variant would therefore be an antagonist. In a similar manner variants which would act as agonists could be designed. In this case the modifications or alterations would be selected such as to increase the strength of interaction between the receptor and the variant so as to lead to increased signalling.

In a similar manner to that described for  $TGF\alpha$ , variants of other ligands of the EGF receptor family may also be designed.

Accordingly in a third aspect the present invention consists in a  $TGF\alpha$  variant in which the sequence of  $TGF\alpha$  is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is removed or decreased, or *vice versa*.

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In a fourth aspect the present invention consists in a TGF $\alpha$  variant in which the sequence of TGF $\alpha$  is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is retained or increased, with the proviso that the binding to at least one of L1 or L2 is increased.

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In a preferred embodiment of these aspects of the present invention the  $TGF\alpha$  variant is modified at one more of the positions selected from the group consisting of 3-5, 8, 9, 11-15, 17, 18, 22, 24, 26, 27, 29-34, 36 and 38-50.

In a fifth aspect the present invention consists in an EGF variant in which the sequence of EGF is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is removed or decreased, or *vice versa*.

In a sixth aspect the present invention consists in an EGF variant in which the sequence of EGF is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is retained or increased, with the proviso that the binding to at least one of L1 or L2 is increased.

By "variant" we mean that the natural sequence of EGF or TGF $\alpha$  has been modified by one or more point mutations, insertions of amino acids, deletions of amino acids or replacement of amino acids, in particular using non-natural amino acids such as D-isomers of natural amino acids, 2,4-diaminobutyric acid,  $\alpha$ -amino isobutyric acid, 4-aminobutyric acid, 2-aminobutyric acid, 6-amino hexanoic acid, 2-amino isobutyric acid, 3-amino propionic acid, ornithine, norleucine, norvaline, hydroxyproline, sarcosine, citrulline, homocitrulline, cysteic acid, t-butylglycine, t-butylalanine, phenylglycine, cyclohexylalanine,  $\beta$ -alanine, fluoro-amino acids, designer amino acids such as  $\beta$ -methyl amino acids,  $C\alpha$ -methyl amino acids,  $N\alpha$ -methyl amino acids,  $\beta$ -naphthalimo amino acids and amino acid analogues in general.

The information provided in Appendix I and Appendix II also reveals the portions of EGFR which are involved in dimer formation and the portions EGFR involved in ligand binding. With this information EGFR variants or fragments may be designed in which specific residues are modified or altered such that the variant or fragment retains the ability to form dimers with the EGFR and or bind ligand. It would be expected that such variant or fragments would compete with the natural receptors for dimerization or ligand binding but that

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dimerization of the variant or fragment with the receptor would not lead to signalling.

Accordingly in a seventh aspect the present invention consists in a polypeptide, the polypeptide comprising amino acids which interact with amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318 of EGFR or the corresponding region of a member of the EGF receptor family, or which are involved in binding of natural ligand of the EGF receptor family.

In a preferred embodiment the polypeptide is based on the native sequence of EGFR but includes modifications such that the interaction between the polypeptide and the native receptor is preferred over the interaction between native receptors.

In a further preferred embodiment the polypeptide is based on the native sequence of EGFR but includes modifications such that the interaction between the polypeptide and the natural ligand is preferred over the interaction between the natural ligand and native receptor.

As will be understood by those skilled in this field knowledge of the structure of a protein complex is of assistance in the development of mutants of one of the proteins with enhanced affinity for its protein partner. Structural information can be used to select residues on one or more of the protein interfaces in the complex for alteration by methods such as site-directed mutagenesis or phage display. For example, amino acid positions in growth hormone which were allowed to vary were chosen in part from the crystal structure of the complex of growth hormone bound to two molecules of the human growth hormone extracellular region (Lowman and Wells (1993) J Mol Biol. 234: 564-578.). Using a model of the granulocyte colony-stimulating factor (G-CSF) receptor ligand binding domain, residues of the receptor were chosen for mutagenesis by analogy with the structure of human growth hormone bound to its receptors (Layton et al., (1997) J Biol Chem. 272: 29735-29741.). Some of the mutant G-CSF receptors were found to bind G-CSF with slightly enhanced affinity (Layton et al., (1997) J Biol Chem. 272: 29735-29741.). The structure of the complex could also be used to design mutations which would potentially increase the binding affinity, for example by increasing the amount of hydrogen bonds and/or van der Waals interactions across the interface.

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The modification of protein residues to enhance protein binding affinity is not restricted to those residues in the relevant protein-protein interfaces. Modification of residues outside of an interface may lead to alterations due to changes in the long-range electrostatic interactions between the two interacting proteins which changes the rate of association and subsequently the equilibrium binding constant (Selzer and Schreiber (1999) *J Mol Biol.* 287: 409-419.; Selzer et al., (2000) *Nat Struct Biol.* 7: 537-541.). The contribution of mutations to the association rate can be calculated and has been used to increase the association rate (without greatly changing the dissociation rate) and the affinity of  $\beta$ -lactamase inhibitory protein to TEM1  $\beta$ -lactamase by a factor of 250 (Selzer et al., (2000) *Nat Struct Biol.* 7: 537-541.).

There are two proposed modes of antagonist action of appropriate extracellular fragments of EGFR family members. The first is ligand binding. The sEGFR501 binds EGF and TGFα with approximately 10 times higher affinity than the full length extracellular portion of the EGFR (Elleman et al., (2001) *Biochemistry*. 40: 8930-8939.). The second mode is the association of these proteins with full-length receptors. Recombinant forms of the EGFR and ErbB-2 which contain only the extracellular domain and transmembrane domain are able to inhibit EGF-induced signalling when expressed on cells which also express the full length EGF receptor (Kashles et al., (1991) *Mol Cell Biol*. 11: 1454-1463; Spivak-Kroizman et al., (1992) *J Biol Chem*. 267: 8056-8063; Qian et al., (1999) *J Biol Chem*. 274: 574-583.), suggesting that the recombinant proteins act in a dominant negative manner which involves their extracellular regions.

The structure of the EGFR complex can be used to design mutations for extracellular fragments of EGFR family. Structural models of the other EGFR family members can be constructed as previously described. Mutations can be made either by expressing mutant versions of EGFR 1-501 or its homologues in which residues have been mutated individually or as groups, or by using the structure to locate amino acid positions which can be changed using methods such as phage display or DNA shuffling. These mutants can be tested or selected for enhanced affinity relative to the extracellular fragment based on the wild type EGFR family member's amino acid sequence. The preferred EGFR amino acids which are candidates for mutation are as follows:-

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- (i) 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467, or
- (ii) 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318.

The relevant residues for other members of the EGF receptor family can be determined from sequence alignments.

Additionally, the mutation of residues which are outside of the relevant binding interface may also alter the binding affinity by changes in the long range electrostatic interactions. These changes can affect the rate of association between two interacting proteins without greatly changing the rate of dissociation, and hence change the equilibrium binding constant (Selzer and Schreiber (1999) J Mol Biol. 287: 409-419.; Selzer et al., (2000) Nat Struct Biol. 7: 537-541.). In one example of increasing the affinity of binding by mutating residues outside of the protein-protein interface, selected residues of the βlactamase inhibitory protein that were outside of the interface were mutated so as to change their charge e.g. a basic residue mutated to a neutral residue and then the affinity and rate constants of the mutant binding to TEM1 β-lactamase was measured. In one mutant, the change of four amino acids led to an enhancement of binding by a factor of more 250-fold (Selzer et al., (2000) Nat Struct Biol. 7: 537-541.). In this example, the authors specified a formula which predicted the changes in the association constant upon mutation to within a factor of two (Selzer et al., (2000) Nat Struct Biol. 7: 537-541.). In this way, the structure of the EGFR or a model of one other EGFR family members could be used to predict mutations that would likely lead to an enhancement of the rate of association of the relevant EGFR family extracellular fragment to its interacting protein. Calculation and subsequent visualization of the electrostatic isopotentials (e.g. Smith and Treutlein (1998) Protein Sci. 7: 886-896.) may assist the selection of residues to mutate in order to increase the protein's rate of association. The most likely candidate residues for mutation are those on the periphery of the interface and those outside of the interface but which are within a specified distance of the interacting protein and are not completely buried in the L1 or L2 domain (as judged by visual examination). Cysteine residues, which are needed for the maintenance of the EGFR structure were also excluded from the list. For the EGFR, the preferred residues are:

(i) 5, 6, 8-10, 19, 21-25, 28, 32, 33, 38, 39, 40, 42, 44, 47, 48, 50, 63, 64, 66, 68, 71, 73, 87, 88, 91-94, 96, 104-107, 109, 123, 130, 131, 151-160, 315-324, 326, 328, 329, 331, 332, 343, 344, 351, 359-363, 379, 380, 385, 387, 388, 394, 404-407, 410, 413, 420, 434-436, 440, 441, 443, 448, 449, 461-464, 466-468; or
(ii) 1-6, 8,9, 11, 30, 35, 36, 39, 40, 60, 62-64, 82, 84, 85, 87-89, 94, 118, 120-122, 148, 187-193, 196-198, 200-203, 209-211, 213, 215, 217-221, 231-233, 235, 237, 238, 241, 243, 244, 247, 254-261, 266, 268-270, 272-274, 276, 277, 281, 289-297, 299-301, 303, 304, 311, 312, 314-317,

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The relevant residues for other members of the EGF receptor family can be determined from sequence alignments.

319-323, 335, 340, 342-344, 346, 376, 378-380, 403-412, 434, 459.

In an eighth aspect the present invention provides computer-assisted method for identifying potential compounds able to interact with a member of the EGF receptor family and thereby modulate an activity mediated by receptor, using a programmed computer comprising a processor, an input device, and an output device, comprising the steps of:

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(a) inputting into the programmed computer, through the input device, data comprising the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations;

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(b) generating, using computer methods, a set of atomic coordinates of a structure that possesses stereochemical complementarity to the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations, thereby generating a criteria data set;

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(c) comparing, using the processor, the criteria data set to a computer database of chemical structures;

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- (d) selecting from the database, using computer methods, chemical structures which are similar to a portion of said criteria data set; and
- (e) outputting, to the output device, the selected chemical structures which are complementary to or similar to a portion of the criteria data set.

In a preferred embodiment of the eighth aspect the subset of amino acids are the amino acids (i) defining either or both the ligand binding surface(s), or (ii) defining dimerization interface.

In a further preferred embodiment the method is used to identify potential compounds which have the ability to decrease an activity mediated by the receptor.

In a further preferred embodiment of the eighth aspect, the method further comprises the step of selecting one or more chemical structures from step (e) which interact with a member of the EGF receptor family in a manner such as to interfere with the binding of natural ligand to:-

- (i) one or more of the residues of EGFR selected from the group consisting of 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 and combinations thereof; or
- (ii) the corresponding region of other members of the EGF receptor family.

In a further preferred embodiment of the eighth aspect, the method further comprises the step of selecting one or more chemical structures from step (e) which interact with one or more of the residues of EGFR selected from the group consisting of amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318 or the corresponding region of other members of the EGF receptor family.

In a further preferred embodiment of the eighth aspect, the method further comprises the step of obtaining a compound with a chemical structure selected in steps (d) and (e), and testing the compound for the ability to decrease an activity mediated by the receptor.

The present invention also provides a method of screening of a putative compound having the ability to modulate the activity of a molecule of the EGF receptor family, comprising the steps of identifying a putative compound by a method according to the first or third aspects, and testing the compound for the ability to increase or decrease an activity mediated by the molecule. In one

embodiment, the test is carried out *in vitro*. Preferably, the *in vitro* test is a high throughput assay. In another embodiment, the test is carried out *in vivo*.

In a ninth aspect the present invention provides a computer for producing a three-dimensional representation of a molecule or molecular complex, wherein the computer comprises:

- (a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein the machine readable data comprise the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations;
- (b) a working memory for storing instructions for processing the machine-readable data;
- (c) a central-processing unit coupled to the working memory and to the machine-readable data storage medium, for processing the machine-readable data into the three dimensional representation; and
- (d) an output hardware coupled to the central processing unit, for receiving the three-dimensional representation.

In a preferred embodiment of the ninth aspect the subset of amino acids are the amino acids (i) defining either or both the ligand binding surface(s), or (ii) defining dimerization interface.

In a tenth aspect the present invention provides a compound able to interact with a member of the EGF receptor family and to modulate an activity mediated by the receptor, the compound being obtained by a method according to the present invention.

In a preferred embodiment of the tenth aspect, the compound is a mutant of the natural ligand of a receptor of the EGF receptor family, where at least one mutation occurs in the region of the natural ligand which interacts with the receptor.

In an eleventh aspect the present invention provides a compound which possesses stereochemical complementarity to a topographic region of a

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molecule of the EGF receptor family and modulates an activity mediated by the molecule, wherein the molecule is characterised by

- (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
- (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations, or
- (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent three-dimensional structure to that of the receptor site defined by amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I;

with the proviso that the compound is not a naturally occurring member of the EGF receptor family or a mutant thereof.

By "mutant" we mean a ligand which has been modified by one or more point mutations, insertions of amino acids or deletions of amino acids.

In one embodiment of the eleventh aspect, the topographic region of the molecule is defined by is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 or the corresponding regions of a member of the EGF receptor family.

In another embodiment of the eleventh aspect, the topographic region of the EGFR is defined by the dimerization interface defined by amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318.

In preferred embodiments of the tenth and eleventh aspects, the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M, more preferably less than 10<sup>-8</sup>M.

In other embodiments of the tenth and eleventh aspects, the compound decreases an activity mediated by the EGF receptor.

In a twelfth aspect, the present invention provides a pharmaceutical composition for preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which comprises a compound according to

the ninth or tenth aspects of the present invention and a pharmaceutically acceptable carrier or diluent.

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In a thirteenth aspect the present invention provides a method of preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which method comprises administering to a subject in need thereof a compound according to the ninth or tenth aspects of the present invention. Preferably, the disease is selected from psoriasis and tumour states comprising but not restricted to cancer of the breast, brain, colon, prostate, ovary, cervix, pancreas, lung, head and neck, and melanoma, rhabdomyosarcoma, mesothelioma, squamous carcinomas of the skin and glioblastoma.

In a fourteenth aspect, the present invention provides a method for evaluating the ability of a chemical entity to bind to EGFR, said method comprising the steps of:

- (a) creating a computer model of at least one region of EGFR using structure coordinates wherein the root mean square deviation between said structure coordinates and the structure coordinates of amino acids 1-501 of EGFR as set forth in Appendix I or Appendix II is not more than about 1.5 Å;
- (b) employing computational means to perform a fitting operation between the chemical entity and said computer model of the binding surface; and
- (c) analysing the results of said fitting operation to quantify the association between the chemical entity and the binding surface model.

In one embodiment of the fourteenth aspect of the invention the region of EGFR is selected from the group consisting of the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438 and 465 and a combination thereof.

In another embodiment of the fourteenth aspect the region of EGFR is the dimerization interface defined by amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318.

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In a fifteenth aspect the present invention consists in a polypeptide complex in a crystallized form comprising the amino acids 1-501 of EGFR and  $TGF\alpha$ .

It will be appreciated that isolated dimers of compounds comprising extracellular fragments of members of the EGF receptor family (e.g. dimers of fragment 1-501 of EGFR) in the back-to-back configuration may be useful therapeutic agents given their ability to compete with natural receptors for binding to ligands of the EGF receptor family.

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Accordingly, in a sixteenth aspect the present invention provides a compound comprising fragment 1-501 of EGFR or an equivalent fragment of a member of the EGF receptor family, wherein the fragment is modified to induce dimerisation of the fragment in back-to-back configuration.

In one embodiment, the modification is made to a residue of the fragment which forms part of the back-to-back dimer interface. More preferably, the modification involves substitution of at least one residue which forms part of the back to back dimer with a cysteine residue. The substitution may be P248C and/or A265C. Alternatively, the substitution may be D279C.

In another embodiment of the sixteenth aspect, the modification involves insertion of a dimerization sequence into the fragment. A "dimerization" sequence allows the non-covalent association of one binding domain to another, with sufficient affinity to remain associated under normal physiological conditions.

Suitable dimerization domains that can be used in the context of the present invention would be known to those skilled in the art, or may be readily identified using standard methods such as the yeast two hybrid system and traditional biochemical affinity binding studies. For example, an in vivo library-versus-library selection of optimized protein-protein interactions is described in Pelletier et al., (1999) Nature Biotechnology 17, 683.

Suitable dimerization sequences may be derived, for example, from Jun and Fos, which are sequence specific DNA binding proteins that regulate transcription. Each protein has a bipartite DNA-binding domain consisting of an amphipathic helix that mediates dimerization through formation of a short coiled structure, termed a "leucine zipper". Suitable dimerization pairs for use in the present invention may include the leucine zipper of Jun or Fos and a protein sequence that reacts with this leucine zipper. A method for identifying

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mammalian proteins that react with the leucine zipper of Jun is described in Chevray & Nathans, (1992) Proc. Natl. Acad. Sci. USA 89, 5789.

Suitable dimerization sequences for use in the present invention also include:

- (i) Heterodimeric coiled-coil peptide pairs as described in Arndt et al., (2000) J. Mol. Biol. 295, 627;
- (ii) The WW domain and ligands that bind thereto (see Dalby et al., (2000) Prot. Sci. 9, 2366);
- (iii) The bacterial nucleoid-associated proteins H-NS and StpA which form homomeric or heteromeric complexes (see Dorman et al., (1999) Trends Microbiol. 7, 124); and
- (iv) Antibody domains, such as the first constant domain ( $C_H1$  and  $C_L$ ) of an IgG1 (see, for example, Mueller et al., (1998) FEBS Lett 422, 259).

In one embodiment, the dimerization sequence is inserted between residues 194 and 195 or between residues 204 and 205 of EGFR or equivalent residues of another member of the EGF receptor family.

In yet another embodiment of the sixteenth aspect, the modification involves the lengthening of an appropriate loop structure (e.g. a loop within the S1 domain) which may then be cross-linked with the corresponding loop or a different loop of the dimer partner by a linker. The linker may be, for example, a disulphide bond. The lengthening of the loop may be achieved, for example, by the insertion of additional residues between residues 210 and 211 or between residues 297 and 298 of EGFR or the equivalent residues of another member of the EGF receptor family.

In another embodiment of the sixteenth aspect, the fragment is conjugated to a molecule. The molecule may be, for example, a constant domain of an immunoglobulin molecule.

The present invention also encompasses compounds of the sixteenth aspect in dimer form.

The information provided in Appendix I and II also shows that there are a number of loop structures in the EGFR. From the three dimensional structure antibodies directed against these would interfere with binding of the natural ligand to the receptor or with the formation of active dimers.

Accordingly in a seventeenth aspect the present invention consists in an antibody which binds to EGFR, the antibody being directed against (i) EGFR residues 100-108, 315-327 or 353-362; or (ii) EGFR residues 190-207, 240-305

or parts thereof or the corresponding regions of a member of the EGF receptor family.

Antibodies of the present invention may be produced, for example, by immunizing mice with purified EGFR fragment 1-501. After determining that the mice are producing anti-EGFR antibodies, hybridomas may be prepared and antibody specificity assayed by ELISA or Flow Cytometry using two cell lines: Baf/wt-EGFR cells and Baf/EGFR-"mutation x" cells. These mouse cell lines express either the wild type EGFR or the EGFR containing an Ala substitution ( ie mutation x) within the specific site against which the antibody is to be directed. When hybridomas secreting antibodies which recognize Baf/wt-EGFR, but not Baf/EGFR-"mutant x" are identified, the corresponding hybridoma may be cloned and the monoclonal antibody purified.

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Alternatively, in raising antibodies of the invention, it may be desirable to use derivatives of the peptides or loop structures which are conformationally constrained. Conformational constraint refers to the stability and preferred conformation of the three-dimensional shape assumed by a peptide. Conformational constraints include local constraints, involving restricting the conformational mobility of a single residue in a peptide; regional constraints, involving restricting the conformational mobility of a group of residues, which residues may form some secondary structural unit; and global constraints, involving the entire peptide structure.

The active conformation of the peptide may be stabilized by a covalent modification, such as cyclization or by incorporation of gamma-lactam or other types of bridges. For example, side chains can be cyclized to the backbone so as create a L-gamma-lactam moiety on each side of the interaction site. See, generally, Hruby et al., "Applications of Synthetic Peptides," in Synthetic Peptides: A User's Guide: 259-345 (W. H. Freeman & Co. 1992). Cyclization also can be achieved, for example, by formation of cystine bridges, coupling of amino and carboxy terminal groups of respective terminal amino acids, or coupling of the amino group of a Lys residue or a related homolog with a carboxy group of Asp, Glu or a related homolog. Coupling of the alpha-amino group of a polypeptide with the epsilon-amino group of a lysine residue, using iodoacetic anhydride, can be also undertaken. See Wood and Wetzel, 1992, Int'l J. Peptide Protein Res. 39: 533-39.

Further the conformation of the peptide analogues may be stabilised by including amino acids modified at the alpha carbon atom (eg.  $\alpha$ -amino-150-

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butyric acid) (Burgess and Leach, 1973, Biopolymers 12(12):2691-2712; Burgess and Leach, 1973, Biopolymers 12(11):2599-2605) or amino acids which lead to modifications on the peptide nitrogen atom (eg. sarcosine or N-methylalanine) (O'Donohue et al, 1995, Protein Sci. 4(10):2191-2202).

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Another approach described in US 5,891,418 is to include a metal-ion complexing backbone in the peptide structure. Typically, the preferred metal-peptide backbone is based on the requisite number of particular coordinating groups required by the coordination sphere of a given complexing metal ion. In general, most of the metal ions that may prove useful have a coordination number of four to six. The nature of the coordinating groups in the peptide chain includes nitrogen atoms with amine, amide, imidazole, or guanidino functionalities; sulfur atoms of thiols or disulfides; and oxygen atoms of hydroxy, phenolic, carbonyl, or carboxyl functionalities. In addition, the peptide chain or individual amino acids can be chemically altered to include a coordinating group, such as for example oxime, hydrazino, sulfhydryl, phosphate, cyano, pyridino, piperidino, or morpholino. The peptide construct can be either linear or cyclic, however a linear construct is typically preferred.

As will be readily understood by person skilled in this field the methods of the present invention provide a rational method for designing and selecting compounds including antibodies which interact with members of the EGF receptor family. In the majority of cases these compounds will require further development in order to increase activity. Such further development is routine in this field and will be assisted by the structural information provided in this application. It is intended that in particular embodiments the methods of the present invention includes such further developmental steps.

In yet a further, eighteenth, aspect, the invention provides a method of utilizing molecular replacement to obtain structural information about a molecular or a molecular complex of unknown structure, comprising the steps of:

- (i) crystallising said molecule or molecular complex;
- (ii) generating an X-ray diffraction pattern from said crystallized molecule or molecular complex;
- (iii) applying at least a portion of the structure coordinates set forth in Appendix I or Appendix II to the X-ray diffraction pattern to generate a three-dimensional electron density map of at least a portion of the molecule or molecular complex whose structure is unknown.

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The term "molecular replacement" refers to a method that involves generating a preliminary model of an EGF receptor family member extracellular domain crystal whose structure coordinates are unknown, by orienting and positioning a molecule whose structure coordinates are known (e.g., EGFR 1-501 coordinates from Appendix I or Appendix II) within the unit cell of the unknown crystal so as best to account for the observed diffraction pattern of the unknown crystal. Phases can then be calculated from this model and combined with the observed amplitudes to give an approximate Fourier synthesis of the structure whose coordinates are unknown. This, in turn, can be subject to any of the several forms of refinement to provide a final, accurate structure of the unknown crystal (Lattman, 1985, Methods in Enzymology 115: 55-77; M. G. Rossmann, ed., "The Molecular Replacement Method", Int. Sci. Rev. Ser., No. 13, Gordon & Breach, New York, 1972). Using the structure coordinates of the EGFR 1-501 provided by this invention, molecular replacement may be used to determine the structural coordinates of a member of the EGF receptor family.

Throughout this specification, the terms "S1" domain and "cys-rich 1" ("CR1") domain are used interchangeably. Similarly, the terms "S2" domain and "cys-rich 2" ("CR2") domain are used interchangeably.

Throughout this specification, the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated element, integer or step, or group of elements, integers or steps, but not the exclusion of any other element, integer or step, or group of elements, integers or steps.

#### **Brief Description of the Figures**

**Figure 1**: Structure-based sequence alignment of the EGFR residues 1-501 and corresponding residues of ErbB-2, ErbB-3 and ErbB-4.

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- **Figure 2:** Sequence alignment of EGF-like domains of ligands of the EGFR family. Note that the start and end of some of these domains are not precisely defined. The sequences are for the human forms of the proteins except for epigen and the EGF-like domain in neuregulin-4 which are the mouse forms of the respective proteins. Abbreviations: EGF epidermal growth factor; TGF- $\alpha$  transforming growth factor alpha; HB-EGF heparin binding epidermal growth factor; NRG neuregulin. There are four known neuregulin genes (NRG1, NRG2, NRG3 and NRG4), some of which encode alternatively spliced forms of the EGF-like domain. These forms are identified as the  $\alpha$  or  $\beta$ -form of the EGF-like domain.
- **Figure 3**. Polypeptide trace for the structure of the 2:2 complex of sEGFR501 and TGF $\alpha$  back-to-back dimer, comprising receptor molecule A , receptor molecule B, TGF $\alpha$  molecule C and TGF $\alpha$  molecule D. The dimer axis lies vertically, in the page.
- **Figure 4**. Structure-based sequence alignment of the human EGFR ectodomain, human TGF $\alpha$  and related proteins. (A) The receptor L1 and L2 domains plus the first module of the cys rich regions, S1 and S2. (B) Modules 2 to 8 of the receptor cys rich region S1 and modules 2 to 7 of S2. (C) Human TGF $\alpha$ , EGF and heparin binding EGF. Numbers in parentheses show where amino acid have been omitted and positions with conserved physicochemical properties of amino acids are boxed. Secondary structure elements are indicated above the sequences (and below in A), with shading as in Figure 5A. Also indicated are disulfide bonds and residues buried at protein-protein interfaces: L1-TGF $\alpha$ , 1; L2-TGF $\alpha$ , 2;L1-L2 contacts, 3 in A; L1- & L2-TGF $\alpha$ , 3 in B; S1 loop, L; residues to which the S1 loop binds, P; other residues in the dimer interface, D. Three types of disulfide bonded modules are indicated by bars below the sequences and residues not conforming to the S1 pattern are shaded grey.

Figure 5. Comparison of sEGFR501 with the first three domains of IGF-1R. Domains 1-3 of IGF-1R are on the left, sEGFR501 as it appears in the complex is on the right. For clarity the ligand in the TGFα:sEGFR501 complex is not shown. L1 domains are oriented similarly.

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Figure 6. Structure of the ligand:receptor binding surfaces. Ribbon representation showing the contacts between sEGFR501 and TGFa viewed from the left in Figure 3. Residue numbers for two important residues in TGF $\alpha$  are below the side chains.

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Figure 7. Stereoview of the molecule A S1 loop contacts with S1 of molecule B in the back-to-back dimer interface. Inter-chain hydrogen-bonds are drawn in black along with the hydrogen-bond from AsnA247 which stabilises the loop tip conformation. The single letter code and residue number is used for amino acid residues. The dimer axis lies vertically at the left between H280.

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Figure 8: Functional characterization of EGFR mutants expressed in BaF/3 cells. (A) Ligand binding by wild type and mutant EGFRs expressed in BaF/3 cells. Scatchard plots of 125I-EGF binding to clones expressing the wt, E21A or ΔCR1 EGFR were analyzed using the Radlig program to yield estimates of 20 receptor affinity. The three cell lines expressed comparable receptor numbers as assessed by M2 or 528 antibody binding and FACS analysis. Shown are the plots for cold ligand titration assay; identical results were obtained titrating the radiolabelled EGF (hot titration). (B) EGF-dependent tyrosine kinase activation. This was determined in total cell lysates by sequential immunoblotting with anti-25 phosphotyrosine (top) or anti-EGFR (bottom) antibodies. The anti-EGFR antibodies have slightly lower affinity for the hyperphosphorylated form of the EGFR. The results are representative of multiple experiments on at least four independently derived clones for each mutant. (C) Ligand-induced EGFR dimerization. Cross-linking of the EGFR via the extracellular portion was 30 performed at 37°C to maximize dimer yield. Samples were analyzed by SDS-PAGE on 3-8% gradient gels and immunoblotting with anti-EGFR antibodies. These data are representative of at least four separate experiments. (D) Ligand-induced sEGFR501 dimerization. Cross-linking of wild type and CR1 loop mutant (Tyr246Asp, Asn247Ala, Thr249Asp, Tyr251Glu, Gln252Ala 35

and Met253Asp) was carried out as described previously (Elleman et al., 2001. Biochemistry 40:8930-8939).

### **Key to Sequence Listing**

- SEQ ID NO:1: EGFR as shown in Figure 1
  - SEQ ID NO:2: ErbB-2 as shown in Figure 1
  - SEQ ID NO:3: ErbB-3 as shown in Figure 1
  - SEQ ID NO:4: ErbB-4 as shown in Figure 1
  - SEQ ID NO:5: EGF domain as shown in Figure 2
- SEQ ID NO:6: TGF- $\alpha$  domain as shown in Figure 2 10
  - SEQ ID NO:7: Amphiregulin domain as shown in Figure 2
  - SEQ ID NO:8: HB-EGF domain as shown in Figure 2
  - SEQ ID NO:9: Betacellulin domain as shown in Figure 2
  - SEQ ID NO:10: Epiregulin domain as shown in Figure 2
- SEQ ID NO:11: Epigen domain as shown in Figure 2 15
  - SEQ ID NO:12: NRG1α domain as shown in Figure 2
  - SEQ ID NO:13: NRG1β domain as shown in Figure 2
  - SEQ ID NO:14: NRG2 $\alpha$  domain as shown in Figure 2
  - SEQ ID NO:15: NRG2β domain as shown in Figure 2
- SEQ ID NO:16: NRG3 domain as shown in Figure 2 20
  - SEQ ID NO:17: NRG4 domain as shown in Figure 2
  - SEQ ID NO:18: EGFR L1 domain as shown in Figure 4A
  - SEQ ID NO:19: IGF 1R L1 domain as shown in Figure 4A
  - SEQ ID NO:20: IGF 1R L2 domain as shown in Figure 4A
- SEQ ID NO:21: EGFR L2 domain as shown in Figure 4A 25
  - SEQ ID NO:22: EGFR S1 domain as shown in Figure 4B
  - SEQ ID NO:23: IGF 1R S1 domain as shown in Figure 4B
  - SEQ ID NO:24: EGFR S2 domain as shown in Figure 4B
  - SEQ ID NO:25: TGFα domain as shown in Figure 4C
- SEQ ID NO:26: EGF domain as shown in Figure 4C 30

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SEQ ID NO:27: hbEGF domain as shown in Figure 4C

## **Detailed description of Preferred Embodiments of the Invention**

The present inventors have now obtained three dimensional structural information about the EGF receptor which enables a more accurate understanding of how the binding of ligand leads to signal transduction. Such

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information provides a rational basis for the development of ligands for specific therapeutic applications, something that heretofore could not have been predicted *de novo* from available sequence data.

The precise mechanisms underlying the binding of agonists and antagonists to the EGF receptor are not fully clarified. However, the binding of ligands to the receptor site, preferably with an affinity in the order of 10<sup>-8</sup>M or higher, is understood to arise from enhanced stereochemical complementarity relative to naturally occurring EGF receptor ligands.

Such stereochemical complementarity, pursuant to the present invention, is characteristic of a molecule that matches intra-site surface residues lining the groove of the receptor site as enumerated by the coordinates set out in Appendix I or Appendix II. Appendix II is a refined version of the coordinates provided in Appendix I.

Substances which are complementary to the shape and electrostatics or chemistry of the receptor site characterised by amino acids positioned at atomic coordinates set out in Appendix I or Appendix II will be able to bind to the receptor, and when the binding is sufficiently strong, substantially prohibit binding of the naturally occurring ligands to the site.

It will be appreciated that it is not necessary that the complementarity between ligands and the receptor site extend over all residues lining the groove in order to inhibit binding of the natural ligand.

In general, the design of a molecule possessing stereochemical complementarity can be accomplished by means of techniques that optimize, chemically and/or geometrically, the "fit" between a molecule and a target receptor. Known techniques of this sort are reviewed by Sheridan and Venkataraghavan, Acc. Chem Res. 1987 20 322; Goodford, J. Med. Chem. 1984 27 557; Beddell, Chem. Soc. Reviews 1985, 279; Hol, Angew. Chem. 1986 25 767, Verlinde C.L.M.J & Hol, W.G.J. Structure 1994, 2, 577, Walters, W.P., Stahl, M.T., Murcko, M.A., Drug Discovery Today 1998, 3, 160; Langer, T. and Hoffmann, R.D., Current Pharmaceutical Design 2001, 7, 509; Good, A., Current Opinion in Drug Disc. Devel. 2001, 5, 301; and Gane, P.J. and Dean, P.M., Curr. Opinion Struct. Biol., 2000, 10, 401. the respective contents of which are hereby incorporated by reference. See also Blundell et al., Nature 1987 326 347 (drug development based on information regarding receptor structure) and Loughney, D.A., Murray, W.V., and Jolliffe, L.K. Med. Chem.

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Res. 1999, 9, 579 (database mining application on the growth hormone receptor).

There are two preferred approaches to designing a molecule, according to the present invention, that complements the stereochemistry of the EGF receptor. The first approach is to in silico directly dock molecules from a three-dimensional structural database, to the receptor site, using mostly, but not exclusively, geometric criteria to assess the goodness-of-fit of a particular molecule to the site. In this approach, the number of internal degrees of freedom (and the corresponding local minima in the molecular conformation space) is reduced by considering only the geometric (hard-sphere) interactions of two rigid bodies, where one body (the active site) contains "pockets" or "grooves" that form binding sites for the second body (the complementing molecule, as ligand).

This approach is illustrated by Kuntz et al., J. Mol. Biol. 1982 161 269, and Ewing, T.J.A. et al., J. Comput-Aid. Mol. Design 2001, 15, 411, the contents of which are hereby incorporated by reference, whose algorithm for ligand design is implemented in a commercial software package, DOCK version 4.0, distributed by the Regents of the University of California and further described in a document, provided by the distributor, which is entitled "Overview of the DOCK program suite" the contents of which are hereby incorporated by reference. Pursuant to the Kuntz algorithm, the shape of the cavity represented by the EGF receptor site is defined as a series of overlapping spheres of different radii. One or more extant databases of crystallographic data, such as the Cambridge Structural Database System maintained by Cambridge University (University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, U.K.), the Protein Data Bank maintained by the Research Collaboratory for Structural Bioinformatics (Rutgers University, N.J., U.S.A.), LeadQuest (Tripos Associates, Inc., St. Louis, MO), Available Chemicals Directory (Molecular Design Ltd., San Leandro, CA), and the NCI database (National Cancer Institute, U.S.A) is then searched for molecules which approximate the shape thus defined.

Molecules identified in this way, on the basis of geometric parameters, can then be modified to satisfy criteria associated with chemical complementarity, such as hydrogen bonding, ionic interactions and Van der Waals interactions. Different scoring functions can be employed to rank and select the best molecule from a database. See for example Bohm, H.-J. and

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Stahl, M. Med.Chem.Res. 1999, <u>9</u>, 445. The software package FlexX, marketed by Tripos Associates, Inc. (St. Louis, MO) is another program that can be used in this direct docking approach (see Rarey, M. et al., J. Mol. Biol. 1996, 261, 470).

The second preferred approach entails an assessment of the interaction of respective chemical groups ("probes") with the active site at sample positions within and around the site, resulting in an array of energy values from which three-dimensional contour surfaces at selected energy levels can be generated. The chemical-probe approach to ligand design is described, for example, by Goodford, J. Med. Chem. 1985 28 849, the contents of which are hereby incorporated by reference, and is implemented in several commercial software packages, such as GRID (product of Molecular Discovery Ltd., West Way House, Elms Parade, Oxford OX2 9LL, U.K.). Pursuant to this approach, the chemical prerequisites for a site-complementing molecule are identified at the outset, by probing the active site with different chemical probes, e.g., water, a methyl group, an amine nitrogen, a carboxyl oxygen, and a hydroxyl. Favored sites for interaction between the active site and each probe are thus determined, and from the resulting three-dimensional pattern of such sites a putative complementary molecule can be generated. This may be done either by programs that can search three-dimensional databases to identify molecules incorporating desired pharmacophore patterns or by programs which using the favored sites and probes as input perform de novo design.

Programs suitable for searching three-dimensional databases to identify molecules bearing a desired pharmacophore include: MACCS-3D and ISIS/3D (Molecular Design Ltd., San Leandro, CA), ChemDBS-3D (Chemical Design Ltd., Oxford, U.K.), and Sybyl/3DB Unity (Tripos Associates, Inc., St. Louis, MO).

Programs suitable for pharmacophore selection and design include: DISCO (Abbott Laboratories, Abbott Park, IL), Catalyst (Accelrys, San Diego, CA), and ChemDBS-3D (Chemical Design Ltd., Oxford, U.K.).

Databases of chemical structures are available from a number of sources including Cambridge Crystallographic Data Centre (Cambridge, U.K.), Molecular Design, Ltd., (San Leandro, CA), Tripos Associates, Inc. (St. Louis, MO), and Chemical Abstracts Service (Columbus, OH).

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De novo design programs include Ludi (Biosym Technologies Inc., San Diego, CA), Leapfrog (Tripos Associates, Inc.), Aladdin (Daylight Chemical Information Systems, Irvine, CA), and LigBuilder (Peking University, China).

Those skilled in the art will recognize that the design of a mimetic may require slight structural alteration or adjustment of a chemical structure designed or identified using the methods of the invention.

The invention may be implemented in hardware or software, or a combination of both. However, preferably, the invention is implemented in computer programs executing on programmable computers each comprising a processor, a data storage system (including volatile and non-volatile memory and/or storage elements), at least one input device, and at least one output device. Program code is applied to input data to perform the functions described above and generate output information. The output information is applied to one or more output devices, in known fashion. The computer may be, for example, a personal computer, microcomputer, or workstation of conventional design.

Each program is preferably implemented in a high level procedural or object-oriented programming language to communicate with a computer system. However, the programs can be implemented in assembly or machine language, if desired. In any case, the language may be compiled or interpreted language.

Each such computer program is preferably stored on a storage medium or device (e.g., ROM or magnetic diskette) readable by a general or special purpose programmable computer, for configuring and operating the computer when the storage media or device is read by the computer to perform the procedures described herein. The inventive system may also be considered to be implemented as a computer-readable storage medium, configured with a computer program, where the storage medium so configured causes a computer to operate in a specific and predefined manner to perform the functions described herein.

Compounds designed according to the methods of the present invention may be assessed by a number of *in vitro* and *in vivo* assays of hormone function. For example, the identification of EGF receptor antagonists of may be undertaken using a solid-phase receptor binding assay. Potential antagonists may be screened for their ability to inhibit the binding of europium-labelled EGF receptor ligands to soluble, recombinant EGF receptor in a microplate-based

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format. Europium is a lanthanide fluorophore, the presence of which can be measured using time-resolved fluorometry. The sensitivity of this assay matches that achieved by radioisotopes, measurement is rapid and is performed in a microplate format to allow high-sample throughput, and the approach is gaining wide acceptance as the method of choice in the development of screens for receptor agonists/antagonists ( see Apell et.al. J. Biomolec. Screening 3:19-27, 1998 : Inglese et. al. Biochemistry 37:2372-2377, 1998).

Binding affinity and inhibitor potency may be measured for candidate inhibitors using biosensor technology.

The EGF receptor antagonists may be tested for their ability to modulate receptor activity using a cell-based assay incorporating a stably transfected, EGF-responsive reporter gene (Souriau et al., 1997, Nucleic Acids Res. 25:1585-1590). The assay addresses the ability of EGF to activate the reporter gene in the presence of novel ligands. It offers a rapid (results within 6-8 hours of hormone exposure), high-throughput (assay can be conducted in a 96-well format for automated counting) analysis using an extremely sensitive detection system (chemiluminescence). Once candidate compounds have been identified, their ability to antagonise signal transduction via the EGF-R can be assessed using a number of routine in vitro cellular assays such as inhibition of EGF-mediated cell proliferation. Ultimately, the efficiency of antagonist as a tumour therapeutic may be tested in vitro in animals beating tumour isografts and xenografts as described (Rockwell et al., 1997, Proc Natl Acad Sci U S A 94:6523-6528; Prewett et al., 1998 Clin Cancer Res 4:2957-2966).

Tumour growth inhibition assays may be designed around a nude mouse xenograft model using a range of cell lines. The effects of the receptor antagonists and inhibitors may be tested on the growth of subcutaneous tumours.

#### **EXAMPLES**

#### Example 1: Protein preparation of sEGFR501

The derivation of stably transfected Lec8 cells expressing sEGFR501 and the subsequent purification and characterisation of the secreted ectodomain has been described in detail (Elleman et al., 2001, Biochemistry 40:8930-8939.). Purified sEGFR501 was shown, by isoelectric focusing gels to

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be unstable on storage, the majority of isoforms being transformed into products with less acidic isoelectric points. This change was accompanied by a small mobility increase (estimated at 1-2 kDa ) on SDS polyacrylamide gels. Nterminal sequence analysis showed that the new product retained the expressed N-terminus of sEGFR501, suggesting that the apparent 1-2 kDa reduction in mass and increase in positive charge might be due to partial or complete loss of the acidic-residue rich C-terminal tag and enterokinase cleavage site. Prolonged storage led to the majority of protein converting to the least acidic isoform of pI ~6.6, which appeared to remain stable. The conversion of a fresh preparation of sEGFR501 to a stable, less acidic isoform was more reproducible and rapid if it was subject to limited proteolysis at ambient temperature in Tris-buffered saline (pH8) for ~180 min with endoproteinase Asp-N (Boehringer-Mannheim) at an enzyme: protein ratio of 1:1000 (w/w). The least-acidic isoform of apparent pl ~6.2 was isolated from the other components by anion exchange chromatography. The digest was bound to three Uno Q2 columns (BioRad) connected in series to a BioLogic HR liquid chromatography instrument in 20 mM ethanolamine /50 mM taurine pH8.0 buffer and the least acidic form was the first product obtained by isocratic elution in the same buffer containing 15 mM lithium acetate. The purified protein was incubated with endoglycosidase F (PNGase-free -Boehringer Mannheim) at a ratio of 10-20 Units/mg protein, followed by rechromatography over Superdex 200 to remove enzyme and low molecular weight cleavage products.

## 25 Example 2: Crystallization and Data Collection

sEGFR501 obtained from the above procedures appeared nearly homogeneous on SDS and IEF gels and was used in crystallization trials alone and in combination with several ligands. The best diffracting crystals were obtained from mixtures containing a five-fold molar quantity of human TGF $\alpha$  (GroPep receptor grade) compared to sEGFR501. Crystals of sEGFR501 in complex with TGF $\alpha$  were grown in 7% PEG 3350, 20% Trehalose, 10 mM CdCl2 and 100mM HEPES, pH 7.5, and belonged to the space group P21 (a = 51.59, b = 198.71, c = 78.90 Å,  $\beta$  = 102.03°). These crystals were cryo-cooled to -170°C in the same mother liquor. Data were recorded on a Rigaku RAXIS VI area detector using a Siemens M18XHF X-ray generator with Yale/MSC mirrors or a Rigaku RU300 generator and AXCO capillary optics. Crystals

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were also derivatised by soaking in mother liquor containing 1-10 mM heavy atom compounds and diffractions data were collected as before and statistics are given in Table 1. The resolution limit was defined as where  $I/\sigma = 2$  for 50% of the reflections. Notable anisotropy was observed for the diffraction limit of the crystals and in the mosaic spread of diffraction maxima.

### **Example 3: Phase Determination and Structure Refinement**

Phasing by multiple isomorphic replacement was performed with programs from CCP4 (Collaborative Computational Project Number 4, 1994) and SHARP (De La Fortelle and Bricogne, 1996, , Methods Enzymol. 276: 472-494) and the resulting electron density maps were improved by solvent flattening and histogram matching with DM (Cowtan, K. 1994, Joint CCP4 and ESF-EACBM Newslett. Protein Crystallogr. 31:34-38). Details are given in Table 1. Density averaging using noncrystallographic symmetry was not of much value as the proteins corresponded to more than three rigid groups. The polypeptide chains for two receptor and two ligand molecules were fitted manually and refined with CNS (Brunger, et al., 1998, X-PLOR Reference Manual 3.851, Yale Univ., New Haven, CT). As the highest resolution data were collected for the PIP derivative these data were use for the final stages of refinement. During the refinement an overall anisotropic temperature factor was applied, with the magnitude of the semi-axes being -18.4, 5.6 and 12.7 Å<sup>2</sup>. The refined structure contains 1097 amino acids, 14 carbohydrate residues, 7 Pt<sup>2+</sup>, 11 Cd<sup>2+</sup> and 4 Cl<sup>-</sup> ions and 79 water molecules. Poor density was observed for residues 148-160 and 289-307 in each receptor and no density was found for ligand residues C1 and D1-D2 and receptor residues A306 and beyond residues A500 and B501.

## Example 4: Construction of N-terminal tagged EGF receptor and mutants

The polymerase chain reaction (PCR) using a human EGFR cDNA (Accession # x00588) (Ullrich et al., 1984, Nature 309:418-425) was used to generate EGFR expression constructs. It is noted that the original EGFR cDNA sequence contains an error at position 1806G (Accession # x00588). The correct base is 1806C, which destroys the Hind III restriction site in the original cDNA sequence. To construct the FLAG tag at the N-terminus of the receptor, PCR products containing EGFR leader sequence (and small portion of 5' non-coding sequence, base pair 131 to 261), followed by the FLAG coding

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sequences with Hind III and Xho I on its 5' and 3' ends, respectively, were generated and cloned into a mammalian expression vector pcDNA3 (Invitrogen) using those restriction sites. The Xho I site coding for Leu and Glu of mature EGFR residues 1 and 2 was generated by silent mutation and an Xba I site was generated after the stop codon (3817-3819) of EGFR cDNA using PCR. Cloning such modified EGFR cDNA into the FLAG tag containing pcDNA3 vector yielded the wild-type N-terminus tagged EGF receptor construct, M2-EGFR. PCR products containing point mutations and S1-loop deletion were cloned using the wild-type M2-EGFR as a template. The point mutation constructs are E21A, R470L, N473D, S474E and A477D. The S1loop deletion construct contains a replacement of nucleotides 988-1035 by GCC, resulting in S1-loop residues 244-259 being replaced by a single alanine residue. The sEGFR501 S1-loop mutant (Tyr246Asp, Asn247Ala, Thr249Asp, Tyr251Glu, Gln252Ala and Met253Asp) was generated by oligonucleotidedirected in vitro mutagenesis using the USB-T7 Gen kit, transiently expressed, purified and characterised as described previously (Elleman et al., 2001. Biochemistry 40:8930-8939).

#### Example 5: Transient expression of wild-type and mutant EFGR

NIH3T3 and 293 cells were obtained from the American Type Culture Collection. The cells were grown in a 10% CO<sub>2</sub> atmosphere at 37 °C in Dulbecco's modified Eagle's medium (for NIH3T3) or in RPMI medium (for 293) (both from Life Technologies. Inc.) containing 10% foetal bovine serum (CSL, Australia), 60 μg/ml pencillin and 100 μg/ml streptomycin. Transient transfections were performed using FuGENETM 6 (Roche Molecular Biochemicals) according to manufacture's protocol. Cells were seeded at ~10% (for NIH3T3) or ~25% (for 293) confluency in 6-well plate and transfected with 0.5 μg plasmid DNA per construct per well. Transfected cells were assayed two days later. For western blotting, cells were washed with serumfree medium, starved for 2 hr and treated with or without EGF (100ng/ml) for 10 min. Whole cell lysates were prepared, fractionated by SDS-gel electrophoresis using 4-20% polyacrylamide gels and western blotted using the monoclonal antibodies M2 (anti-FLAG, Sigma) and 4G10 (antiphosphotyrosine, Upstate Biotechnology) as described (Walker et al, 1998, Growth Factors 16, 53-67).

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# Example 6: Characterisation of wild-type and mutant EGFR stably expressed in BaF/3 cells.

The isolation and characterisation of stably transfected cell lines expressing wild-type and mutant EGFRs was performed using the II3dependent murine hemopoietic lineage BaF/3 (Walker et al. 1998, Growth Factors 16, 53-67). Expression vectors containing the appropriate EGFR constructs were transfected individually by electroporation using a Gene Pulser (BioRad) according to manufacturer's instructions. Neomycin-resistant pools were generated by selection in G418, and cloned by limiting dilution to obtain stable cell lines. Cell-surface expression of receptors was detected by FACScan (Fluorescence Activated Cell Scan, Becton and Dickinson) using the anti-EGFR monoclonal antibody 528 (Gill et al., 1984, J. Biol. Chem. 259:7755-7760) and the M2 anti-FLAG antibody (Brizzard et al., 1994, Biotechniques 16:730-735). Ligand binding studies and Scatchard analysis were performed using iodinated murine EGF as previously described (Walker et al, 1998, Growth Factors 16, 53-67). Scatchard plots and estimates of affinities and receptor numbers were obtained using the Radlig program (Kell for Windows, BioSoft). Ligand-induced receptor kinase activation was analysed by immunoblotting cell lysates with 4G10. For receptor cross-linking studies, washed cells were incubated in PBS with or without EGF (100ng/ml) and with or without BS3 (Pierce; 1.3mM) for 20 min at 37°C. The cells were then lysed and analysed by immunoblotting using a polyclonal sheep anti-EGFR antibody (Upstate Biotechnology) as described (Walker et al.,1998. Mol. Cell Biol. 18:7192-7204).

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#### **Example 7: Overall Structure**

sEGFR501 is comprised of three structural domains, namely L1, S1 and L2 plus the first module from the second cys-rich region S2. Crystals of TGF $\alpha$ :sEGFR501 contain two molecules of each polypeptide in the asymmetric unit. There are two possible dimer interactions: a back-to-back dimer dominated by interactions between the S1 domains of each receptor and a head-to-head dimer involving contacts between the L1 and L2 domains. The back-to-back complex is approximately 33 x 78 x 103 Å while the head-to-head complex is 65 x 75 x 128 Å. Each TGF $\alpha$  molecule is clamped between the L1 and L2 domains from the same sEGFR501 molecule, and makes contact with only one receptor molecule in the dimer. In the back-to-back dimer the two

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ligands are located on opposite sides of the complex with the closest approach 70.9 Å apart. In the head-to-head dimer the two ligands are centrally located, and are separated by 15 Å.

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We conclude that the back-to-back dimer corresponds to the 2:2 TGFα:sEGFR501 complex that is formed in solution (Elleman et al., 2001. Biochemistry 40:8930-8939) from comparisons of the amount of buried surface area in the two dimer options, the lack of symmetry in the head-to-head dimer compared to that seen in the back-to-back dimer, the sequence conservation at the dimer interfaces (described later) and the characteristics of the receptors mutated at both interfaces (described later). In the head-to-head dimer only 510 Å2 of accessible surface area is buried on each molecule and this is distributed over two patches 39 Å apart. The residues involved are 21, 24, 25, 28 and 48-51 on both L1s, 471, 473, 474, 476 and 477 on both L2s plus 32 (molecule A) and 443 and 478 from molecule B. In contrast, in the back-toback dimer 1125 Å2 on each receptor is buried. Biologically relevant proteinprotein interfaces usually bury more than 700 Å2 of surface per molecule and often about 1000 Å2 (Lo Conte et al., 1999, J. Mol. Biol. 285:2177-2198), implying that the back-to-back configuration is more likely to be the functional dimer. There is a lack of symmetry at the two L1-L2' interfaces in the head-tohead dimer which corresponds to a 6 Å translation of the L2' helix (residues 471-479) relative to the L1 helix. Such structural ambiguity is not seen in the back-to-back dimer (Figure 3), the non-crystallographic symmetry being very close to a pure two-fold rotation, implying that this is the functional dimer. It is further supported by experiments where a model of the EGF receptor S2 domain (Jorissen et al., 2000, Protein Sci. 9:310-324) was superimposed onto the structure determined here for the first modules of the S2 domains of the two sEGFR501 molecules. In the back-to-back dimer the rod-like domains of S2 project towards each other underneath sEGF501, consistent with the ability to form disulfide-linked dimers via a Cys mutation three residues upstream of the transmembrane domain when ligand binds to mutant receptors (Sorokin et al., 1994, J. Biol. Chem. 269:9752-9759). The same superimposition performed on the head-to-head dimer results in the modelled S2 domains projecting away from each other and is inconsistent with the Cys mutant data (Sorokin et al., 1994, J. Biol. Chem. 269:9752-9759).

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#### Example 8: Receptor domain architecture

The L1, S1 and L2 domains show both sequence (Figure 4) and structural (Figure 5) homology to the first three domains of the type I insulin-like growth factor receptor (Garrett et al., 1998, Nature 394:395-399). More broadly, the L domains resemble other leucine-rich repeat or solenoid proteins (Ward, C. W. and Garrett, T. P. J. 2001, BMC Bioinformatics 2, 4; Kobe B. and Kajava, A. V. 2001, Curr. Opin. Struct. Biol. 11:725-732). Each L domain is composed of six turns of a β-helix or solenoid and is capped at each end by a helix and a disulfide bond. At the C-terminus of the L domains the helix is only vestigial and in each case there is intimate association with the first module of S1 or S2. A conserved Trp from each of these first modules (Trp176 in S1 and Trp492 in S2) is inserted into the body of the L domain between the fourth and fifth turns of the β-helix as seen in IGF-1R (Garrett et al., 1998, Nature 394:395-399), making these modules structurally part of the L domain. In each case the loops in the first cys-rich modules of the S1 and S2 domains of sEGFR501 are shorter than those in IGF-1R and similar in size to the other modules in sEGFR501 (modules 2 and 3 in S1 and 4 and 7 in S2) which contain two disulfide bonds (Figures 4A and 4B).

Each of the L domains contains a large  $\beta$ -sheet (second sheet, in Figure 5), flanked by two shorter ones on either side (blue and yellow). The edge between the first and second  $\beta$ -sheets is characterised by the presence of a stack of conserved Gly residues at positions 39, 63, 85, 122 in L1 and 343, 379, 404 and 435 in L2 (Figure 4A). The edge at the junction of the second and third  $\beta$ -sheets is formed, in part, by a short Asn ladder as in IGF-1R (Garrett et al.,1998, Nature 394:395-399). A loop from the fourth turn of each solenoid protrudes from the large (second)  $\beta$ -sheet and is common to the EGF and IGF receptor families. Opposite the large  $\beta$ -sheet in both L1 and L2 there is a more irregular face, with the polypeptide strands in the third, fourth and fifth turns in L2 having a similar conformation to those in IGF-1R L1 but different from those in EGFR L1.

For both L1 and L2 domains of EGFR the long  $\beta$ -strand in the first turn of the solenoid is missing. In L1 this strand is replaced by a long V-shaped excursion (residues 8-18) of the polypeptide chain which sits over the large  $\beta$ -sheet of this domain to form a major part of L1's ligand-binding surface (Figure 6). In L2 this second strand is replaced by a loop (residues 316-326) which also contacts the ligand (Figure 6).

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The order and association of the eight disulfide-bonded modules in S1 are similar to that of IGF-1R (Figures 4A and 4B), with the first module packed against the fourth face of the L1 domain as discussed above and modules 2-8 forming a rod-like domain (Figure 5) spanning from L1 to L2. Relative to IGF-1R, each of the disulfide bonded modules in sEGFR501 is oriented slightly differently to the previous one (8-36°), with the cumulative effect being that S1 of the EGFR appears as a straight rod, bent at module 6, whereas in IGF-1R the S domain is curved. Even for the two molecules of EGFR in the crystal's asymmetric unit there is a relative difference between modules 6 and 7 of 12°, implying that the modules are not always rigidly associated.

Like IGF-1R, S1 of EGFR makes contact with L1 along one side of the solenoid (sheet 1, burying 1375 Ų of accessible surface area) but in EGFR, S1 also makes appreciable contact with the L2 domain via modules 6 and 7 (burying 860 Ų). This is different to the IGF-1R structure where the L2 domain is rotated away to lie almost perpendicular to the axis of L1 (Figure 5). Thus the C-terminal region of S1 may act as a hinge in the ligand-free form of the EGFR as modules 7 and 8 appear somewhat mobile, having some of the largest temperature factors in the structure.

The most striking feature of S1 is a large ordered loop from module 5 which projects directly away from the ligand-binding site. The loop consists of residues 242-259 and contains an antiparallel  $\beta$ -ribbon (Figure 5). This loop is highly conserved within the EGFR family and is different to the insulin receptor family where a loop of similar size points from module 6 into the ligand-binding site (Figure 5). If EGFR were to have a loop similar to IGF-1R, there would be a substantial steric clash between that loop and L2.

#### Example 9: Structure of TGFα

More than 10 mitogenic peptides form a family of ligands which can bind to members of the EGFR family. However, apart from residues Gly19, Gly40 and the three conserved disulfide bonds which are needed to maintain structure, only Arg42 is conserved throughout the family and pairwise sequence identities between the ligands are often less than 35%. Three-dimensional structures have been determined by NMR for EGF (Montelion et al., 1987, Proc. Natl Acad. Sci. U S A. 84, 5226-5230; Cooke et al., 1987, Nature 327:339-341; Kohda et al., 1992, Biochemistry 31:11928-11939; Barnham, et al., 1998, Protein Sci. 7:1738-1749), TGFα (Tappin et al., 1989,

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Eur. J. Biochem. 179, 629-637; Harvey et al, 1991, Eur. J. Biochem. 198:555-562; Moy et al., 1993, Biochemistry 32:7334-7353) and heregulin (Nagata et al., 1994, EMBO J. 13:3517-3523; Jacobsen et al, 1996, Biochemistry 35, 3402-3417) and by X-ray crystallography for heparin-binding EGF (HB-EGF) in complex with diphtheria toxin (Louie et al., 1997, Mol. Cell 1:67-78) and EGF (Lu, et al., 2001, J. Biol. Chem. 276:34913-34917). These structures show that TGFα and its relatives are relatively flexible molecules built on a small structurally conserved core. In particular, the N- and C-terminal residues are often quite disordered. From a comparison of the two molecules of EGF in the asymmetric unit, (Lu, et al., 2001, J. Biol. Chem. 276:34913-34917) found that the common structural core comprised only residues 13-21 and 30-47 (equivalent to 15-22 and 31-48 in TGFα, Figure 4C) which encompassed half of the large  $\beta$ -ribbon and a small, C-terminal  $\beta$ -ribbon. The structure of TGF $\alpha$ , seen here in the complex, shows substantially more order, with a third, Nterminal  $\beta$ -strand (residues 4-6) aligned with the large  $\beta$ -ribbon (residues 19-33) to form a three-stranded β-sheet and an ordered C-terminus. The structure of TGF $\alpha$  in the 2:2 complex is triangular or crescent shaped. The two TGF $\alpha$ molecules in the dimer superimpose well on each other (rmsd 0.70 for 44 Ca atoms). They are structurally similar to the human EGF molecule A (rmsd 1.33 Å for 41 Cα atoms) in the EGF crystal structure (Lu, et al., 2001, J. Biol. Chem. 276:34913-34917) and even more closely to HB-EGF (0.66 Å for 34 Cα atoms) in its complex with diphtheria toxin (Louie et al., 1997, Mol. Cell 1:67-78).

#### Example 10: Ligand-receptor interactions in the EGF receptor

In the complex, each sEGFR501 monomer interacts with a single  $TGF\alpha$  molecule and each ligand interacts with the large  $\beta$ -sheets of both the L1 and L2 domains of one receptor molecule (Figures 3 and 6). Relative to IGF-1R, the position of L2 corresponds to a rotation by 105° at the L2/S1 module7 interface or 122-130°, relative to L1 of IGF-1R. More than a third of the ligand's accessible surface area is buried by the L1 and L2 domains of the receptor (about 745 Ų by L1 and about 785 Ų by L2) and over 60% of the ligand's residues make contact with the receptor. The footprint of the ligand on the receptor covers most of the large (second) sheet of each L domain, running from the top left corner to abut the loop in the fourth rung of the solenoid (Figures 3 and 6).

In the contact with L1, the inner curved face of the crescent-shaped TGFα sits across the large sheet and extends to the N-terminal helix of L1 (Figure 6). More than half the buried surface area of L1 comes from a Vshaped loop which runs across the large sheet, replacing the first strand of the corresponding sheet in IGF-1R. In the center of this interface  $\mathsf{TGF}\alpha$  makes contact with the receptor, primarily via main chain atoms. One strand from the large  $\beta$ -sheet of TGF $\alpha$  (residues 29-35) sits edge on to the receptor and aligns with the latter part of the V-shaped loop (residues 15-17) in L1's first solenoid turn. This enables the receptor to contribute part of the V as a fourth parallel  $\beta$ strand to the first and larger of the ligand's two  $\beta$ -sheets (Figure 6). Asn12, which is conserved in all of the EGFR family except ErbB2, makes a side chain to main chain contact with the peptide N atom of Gly40 in TGF $\alpha$ . The O $\gamma$ 1 atom of Thr15 from L1 also makes a hydrogen bond to Ala41 O of TGF $\alpha$ . This interface is also characterized by a small hydrophobic contact around Leu17 from L1 and hydrophilic and electrostatic interactions involving the ligand's 'B loop' residues Arg22, Gln26, Glu27 and Lys29 with the L1 domain residues Tyr45, Tyr101, Arg125, and Glu90 respectively. The location of the N-terminus of  $TGF\alpha$  near Tyr101 in the complex is consistent with the chemical crosslinking data of (Woltjer et al., 1992, Proc. Natl. Acad. Sci. USA. 89, 7801-7805). It should be noted that the lack of conservation in ErbB2 of two key residues in this interface (Arg for Thr/Ser at position 15 and Met for Asn at position 12) would prevent any of the EGF family of ligands from binding to L1.

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The interface between L2 and  $TGF\alpha$  is formed mostly from the side chain atoms of both the ligand and receptor.  $TGF\alpha$  sits on the flat face (i.e. the large  $\beta$ -sheet) of L2, surrounded by three loops (residues 316-326, 352-363 and 405-412) which project out from the plane of the sheet (Figure 6). The contact between the ligand and receptor is an alternating series of stripes of hydrophobic and hydrophilic interaction across the interface. These are as follows: (i) Phe15 of  $TGF\alpha$  sits against Phe357 of EGFR; (ii) the strictly conserved Arg42 of  $TGF\alpha$  is sandwiched between Phe15 and Phe17 of the ligand facilitating the correct orientation and environment to make a salt bridge with the strictly conserved Asp355 of the receptor; (iii) Phe 17 and the lower part of Glu44 from  $TGF\alpha$  interact with Leu325, Leu348 and Val350 from L2; (iv) the next hydrophilic region contains four histidines, His18 and His45 of  $TGF\alpha$  and His346 and His409 of L2, as well as Tyr38 and Glu44 from  $TGF\alpha$  and Gln384 and Gln408 from L2; and (v) there is a hydrophobic pocket in L2

(Leu382, Gln408, His409, Phe412, Val 417, Ile438), centred over Ala415, which holds the highly conserved Leu48 of TGF $\alpha$  (Leu47 in EGF), the ligand residue with the largest buried surface. The C-terminus of TGF $\alpha$  is sandwiched between domains L1 and L2, with the side chain of Leu49 contacting both L domains. Leu49 may well define the final positioning of the L domains in the complex. Lys465 from L2 is near the C-terminus of TGF $\alpha$  and may stabilise the terminal carboxyl group. Lys465 has been chemically cross-linked to residue 45 in a mutant form of mouse EGF (Summerfield et al.,1996, J. Biol. Chem. 271:19656-19659). Some carbohydrate nearby could possibly also affect ligand binding.

There appears to be a number of key contacts, with the ionic interaction between TGF $\alpha$  Arg42 and EGFR Asp355 and the hydrophobic interaction between TGF $\alpha$  Leu48 and the hydrophobic pocket centred over EGFR Ala415 being particularly important. These features are conserved in all ErbB family members.

Although the interactions of EGFR with TGF $\alpha$  are ostensibly the same for both molecules in the crystal's asymmetric unit, it should be noted that when the ligands are superimposed, the L1 domains differ by a rotation of 3.5° about Leu14 C $\gamma$  and for the L2 domain approximately 8° about Ala415 C $\beta$  in EGFR and the side chain of Leu48 in TGF $\alpha$ . These observations suggest that while there may be a bit more flexibility in the TGF $\alpha$ :L2 interface, Leu48 is the major determinant of ligand binding to L2. The cluster of His residues in the middle of the L2 interface may play a part in release of the ligand at low pH following endocytosis.

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### **Example 11: Receptor-receptor interactions**

Unlike other growth factor receptor complexes, the ligand is not found at the dimer interface in the 2:2 complex of TGFa:sEGFR501. Thus ligand induced dimerization of sEGFR501 implies that binding of ligand induces a conformational change in the receptor that promotes receptor-receptor interactions. The most notable feature of the back-to-back dimer is a long loop (residues 242-259) which is specific to the EGFR family and is not found in the CR of IGF-1R (Figures 4B and 5) or other members of the insulin receptor family. From each receptor the loop projects out from the fifth module of S1, across the other S1 domain to a space between L1, L2 and S1 domains of the neighbouring receptor (Figure 3). Contact is made by residues 244-253 of the

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S1 loop in, say, molecule A with residues 229-239, 262-278, and 282-288 on the concave face of the S1 domain of molecule B (Figure 3). The buried surface areas are 480 Ų and 330 Ų, respectively. At specific positions in the S1 loop there is remarkable sequence conservation across all ErbB family members. Tyr246 is strictly conserved and is completely buried in the interface. The Oη atom of TyrA246 (receptor molecule A) makes hydrogen bonds with the GlyB264 N and CysB283 O atoms (receptor molecule B) and the phenyl ring sits against the C $\beta$  atoms of SerB262 and SerB282 and the face of the following peptides (Figure 7). Residue 251 is strictly conserved as Tyr or Phe and in this interface makes a hydrophobic contact via the benzene ring with the PheB263, GlyB264, TyrB275 and ArgB285. The O $\eta$  of TyrA251 is exposed to solvent. Additional hydrophobic contacts are made by ProA248 to PheB230 and AlaB265; and by MetA253 to ThrB278. There is also a hydrogen bond from TyrA251 O to ArgB285 N (Figure 7).

Other conserved residues of the S1 loop, such as Asn247 and Asn256, do not make contact with the other half of the dimer, but hydrogen bond back onto the main chain and appear to be important for maintaining the loop in the appropriate conformation. There are four positions in the loop (residues 243, 248, 255 and 257) where proline is found in at least one member of the human EGFR family with ErbB3 having as many as three prolines. These prolines would further stabilise the conformation of the loop.

The loop not only touches the S1 domain of its partner, but also reaches across to contact the L1 and L2 domains of the other receptor molecule (burying a surface area of 40 Ų on L1 and 5 Ų on L2). AsnB86 touches ThrA249 and, with a slight rearrangement, could form a hydrogen bond between the side chains. Neither residue is conserved in other ErbB receptors although polar residues predominate at these positions. ThrA250, which is conserved in other ErbB receptors, sits near IleB318 but the reason for the conservation is not apparent. Although these interactions are quite weak, it is possible that the binding of the loop from one receptor may be affected by binding of ligand to the other, as ligand binding may alter the relative positions of the L domains.

Two other regions also participate in the back-to-back dimer contact. One is near the two long loops, where Asp279 and His280 of receptor A make contact across the dimer axis with the corresponding residues from receptor B (Figure 3). A second region of contact is near the N-terminal end of the S1

domain in cys-rich module 2, where residues 193–195 and 204-205 from molecule A contact 193-194 and 204-205 from molecule B, burying about 225  ${\mbox{\sc A}}^2$ .

# 5 Example 12: Functional Characterisation of mutant EGFRs expressed in BaF/3 cells

In order to establish the biological relevance of the two dimers identified in crystals of the TGFa:sEGFR501 complex, mutant receptors designed to probe the two dimer interfaces were analyzed. Single amino acid substitutions Glu21Ala, Arg470Leu, Asn473Asp, Ser474Glu and Ala477Asp were prepared to test the head-to-head dimer. When transiently expressed in 293 cells, which express low endogenous levels of EGFR (<1x10<sup>4</sup> receptors/cell), or when stably expressed (Glu21Ala) in the hemopoietic cell line BaF/3 which do not express EGFR family members (Walker et al., 1998, Growth Factors 16:53-67), these mutants showed normal EGF binding, kinase activation, dimerization (Figure 8) and internalization (data not shown). In contrast mutants of the back-to-back dimer, an S1 loop deletion (residues  $\Delta 242$ -259) from the full length receptor and sEGFR501 with multiple substitutions in the S1 loop (Tyr246Asp, Asn247Ala, Thr249Asp, Tyr251Glu, Gln252Ala and Met253Asp) were defective. The  $\Delta S1$ -loop clones fail to show ligand-induced dimerization and ligand-induced kinase activation and exhibit only low affinity binding (Figure 8A, B, C). The sEGFR501 mutants fail to show ligand-induced dimerization (Figure 8D) and exhibit 15 fold lower affinity binding on BIAcore (500 nM vs·30 nM for sEGFR501).

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#### Conclusion

Ligand-induced dimerisation (or oligomerisation) of receptors is a common means of signal transduction and in all cases seen so far the ligand participates directly in the dimerisation of receptors. For VEGF/Flt-1 (Wiesmann et al.,1997, Cell 91:695-704), nerve growth factor (NGF)/TrkA receptor (Weismann et al.,1999, Nature 401:184-188.), bone morphogenic protein (BMP)/BMP receptor (Kirsch et al., 2000, Nat. Struct. Biol. 7:492-496), interferon  $\gamma(IFN\gamma)/IFN\gamma$  receptor (Thiel et al., 2000, Structure Fold Des. 8:927-936) and tumour necrosis factor (TNF)/TNF receptor (Banner et al., 1993, Cell 73:431-445), the ligand is a dimer or trimer before forming the 2:2 complex or 3:3 complex, and in the structures determined, the receptors do not contact

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each other. In the 2:2 complex of the fibroblast growth factor (FGF)/FGF receptor the ligands do not contact each other but are dimerised by heparin (Plotnikov et al., 2000, Cell 101:413-424; Schlessinger et al., 2000, Molecular Cell 6:743-750; Sorokin et al., 1994 J. Biol .Chem. 269:9752-9759; Pelligrini et al., 2000, Nature 407:1029-1034). The FGF receptors do contact each other and the two FGF ligands lie at the dimer interface with a heparin molecule sitting between two FGFs. In the 2:2 complex of granulocyte colony stimulating factor (GCSF)/GCSF receptor (Aritomi et al.,1999, Nature 401:713-715) each ligand binds both receptors but there are no contacts between the two ligands or the two receptor fragments. Finally, in the growth hormone, erythropoietin and prolactin/receptor complexes, there is only one ligand molecule in the 1:2 complex and the two receptor molecules make contact with ligand and with each other (de Vos et al.,1992, Science 255:306-312).

The TGFα:EGFR complex represents a new and surprising way in which receptors and protein ligands interact. EGFR ligands bind at a site remote from the dimer interface and must modify the receptor to promote dimerisation. A precedent for this has been seen for much smaller ligands. For example, in the rat metabotrophic glutamate receptor, a disulfide-linked homodimer, binds glutamate between two domains of the receptor monomer, causing them to go from an 'open' to a 'closed' form (Kunishima et al.,2000, Nature 407:971-977). Such a mechanism could also occur in the EGFR family where the ligand binds both L1 and L2, fixing the relative orientations of the two domains. Compared to IGF-1R there is a substantial rearrangement of L domains in EGFR (Figure 5) although a conformational change of such a magnitude would not be necessary. A smaller change in L domain positions upon ligand binding, possibly with hinge motions seen at the S1 module 5/6, 6/7 and 7/L2 interfaces (relative to IGF-1R), could enable EGFR extracellular domains to form dimers.

The disclosure of all publications referred to in this application are include herein by reference.

It will be appreciated by persons skilled in the art that numerous variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive.

#### Claims:

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- 1. A method of selecting or designing a compound that interacts with a receptor of the EGF receptor family and modulates an activity associated with the receptor, the method comprising
- (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
  - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
  - (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent threedimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,
  - (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and
  - (c) testing the compound for its ability to modulate an activity associated with the receptor.
- 2. A method as claimed in claim 1 wherein the receptor is EGFR and the topographic region of EGFR is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.
- 3. A method as claimed in claim 2 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding

surface of EGFR defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

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- 4. A method as claimed in claim 1 wherein the receptor is ErbB-2 and the topographic region of ErbB2 is the surface defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 5. A method as claimed in claim 4 wherein the compound is selected or designed to have portions that match residues positioned on the surface of ErbB2 defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface of ErbB2 defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 6. A method as claimed in claim 1 wherein the receptor is ErbB-3 and the topographic region of ErbB-3 is the ligand binding surface defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.

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- 7. A method as claimed in claim 6 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-3 defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface of ErbB-3 defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.
- 8. A method as claimed in claim 1 wherein the receptor is ErbB-4 and the topographic region of ErbB-4 is the ligand binding surface defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface defined by amino acids 326, 347,

receptor family.

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349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.

- 9. A method as claimed in claim 8 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-4 defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface of ErbB-4 defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.
- 10. A method as claimed in claim 1 wherein the compound is selected or designed to interact with a site within 5 Å of atomic positions of the EGF receptor listed in Appendices III or IV or corresponding regions of other members of the EGF receptor family, such that the compound interferes allosterically with the binding of a natural ligand to a member of the EGF
  - 11. A method of selecting or designing a compound that inhibits the formation of active dimers of receptors of the EGF receptor family, the method comprising:
  - (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
    - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
    - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
    - (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent three-dimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root

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- mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,
- (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and

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- (c) testing the compound for its ability to inhibit the formation of active dimers of the receptors.
- 12. A method as claimed in claim 11 wherein the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.
- A method as claimed in claim 12 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.
  - 14. A method as claimed in claim 11 wherein the receptor is ErbB-2 and the topographic region of the ErbB-2 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.
  - 15. A method as claimed in claim 14 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of ErbB-2 defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

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- 16. A method as claimed in claim 11 wherein the receptor is ErbB-3 and the topographic region of the ErbB-3 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.
- 17. A method as claimed in claim 16 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of ErbB-3 defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.
  - 18. A method as claimed in claim 11 wherein the receptor is ErbB-4 and the topographic region of the ErbB-4 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
- A method as claimed in claim 18 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-4 defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
  - 20. A method as claimed in any one of claims 11 to 19 wherein the compound is designed or selected to comprise a first domain which interacts with the dimer interface of a first EGF receptor family member and a second domain which interacts with the dimer interface of a second EGF receptor family member.

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- 21. A computer-assisted method for identifying potential compounds able to interact with a member of the EGF receptor family and thereby modulate an activity mediated by receptor, using a programmed computer comprising a processor, an input device, and an output device, comprising the steps of:
  - (a) inputting into the programmed computer, through the input device, data comprising the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations;
  - (b) generating, using computer methods, a set of atomic coordinates of a structure that possesses stereochemical complementarity to a topographic region of the EGF receptor molecule, wherein the EGF receptor molecule is characterised by the atomic coordinates of amino acids 1-501 as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations, thereby generating a criteria data set;
  - (c) comparing, using the processor, the criteria data set to a computer database of chemical structures;
  - (d) selecting from the database, using computer methods, chemical structures which are similar to a portion of said criteria data set; and
  - (e) outputting, to the output device, the selected chemical structures which are complementary to or similar to a portion of the criteria data set.
- 22. A method as claimed in claim 21 wherein the receptor is EGFR and the topographic region of EGFR is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-

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- 350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.
- 23. A method as claimed in claim 22 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of EGFR defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

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- 24. A method as claimed in claim 21 wherein the receptor is ErbB-2 and the topographic region of ErbB2 is the surface defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 25. A method as claimed in claim 24 wherein the compound is selected or designed to have portions that match residues positioned on the surface of ErbB2 defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface of ErbB2 defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 26. A method as claimed in claim 21 wherein the receptor is ErbB-3 and the topographic region of ErbB-3 is the ligand binding surface defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.

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27. A method as claimed in claim 26 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-3 defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface of ErbB-3 defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.

- 28. A method as claimed in claim 21 wherein the receptor is ErbB-4 and the topographic region of ErbB-4 is the ligand binding surface defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.
- 29. A method as claimed in claim 28 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-4 defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface of ErbB-4 defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.

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30. A method as claimed in claim 21 wherein the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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31. A method as claimed in claim 30 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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32. A method as claimed in claim 21 wherein the receptor is ErbB-2 and the topographic region of the ErbB-2 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids

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84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

33. A method as claimed in claim 32 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of ErbB-2 defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

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34. A method as claimed in claim 21 wherein the receptor is ErbB-3 and the topographic region of the ErbB-3 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

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35. A method as claimed in claim 34 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of ErbB-3 defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

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36. A method as claimed in claim 21 wherein the receptor is ErbB-4 and the topographic region of the ErbB-4 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.

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37. A method as claimed in claim 36 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-4 defined by amino acids 40, 88, 196, 197, 206,

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- 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
- 5 38. A method as claimed in any one of claims 21 to 37 which further comprises the step of obtaining a compound with a chemical structure selected in steps (d) and (e), and testing the compound for the ability to decrease an activity mediated by the receptor.
- 10 39. A method as claimed in claim 38 wherein the test is carried out in vitro.
  - 40. A method as claimed in claim 39 wherein the *in vitro* test is a high throughput assay.
- 15 41. A method as claimed in claim 38 wherein the test is carried out *in vivo*.
  - 42. A method as claimed in any one of claims 1 to 41 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M.
    - 43. A method as claimed in any one of claims 1 to 41 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-8</sup>M
    - 44. A method as claimed in any one of claims 1 to 41 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-9</sup>M.
- 30 45. A method as claimed in any one of claims 1 to 44 wherein the compound is selected or modified from a known compound identified from a data base.
  - 46. A method as claimed in any one of claims 1 to 45 wherein the method is used to identify potential compounds which have the ability to decrease an activity mediated by the receptor.

47. A computer for producing a three-dimensional representation of a molecule or molecular complex, wherein the computer comprises:

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- (a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein the machine readable data comprise the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations:
- (b) a working memory for storing instructions for processing the machine-readable data;
- (c) a central-processing unit coupled to the working memory and to the machine-readable data storage medium, for processing the machine-readable data into the three dimensional representation; and
- (d) an output hardware coupled to the central processing unit, for receiving the three-dimensional representation.
- 48. A computer as claimed in claim 47 wherein the subset of amino acids are the amino acids (i) defining either or both the ligand binding surface(s), or (ii) defining dimerization interface.
- 49. A compound able to interact with a member of the EGF receptor family and to modulate an activity mediated by the receptor, the compound being obtained by a method according to any one of claims 1 to 46.
- 30 50. A compound as claimed in claim 49 which is a mutant of the natural ligand of a receptor of the EGF receptor family, where at least one mutation occurs in the region of the natural ligand which interacts with the receptor.
  - 51. A pharmaceutical composition for preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which

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comprises a compound according to claim 49 or claim 50 and a pharmaceutically acceptable carrier or diluent.

- 52. A method of preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which method comprises administering to a subject in need thereof a compound identified by a method comprising the step of the step of assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor is characterised by:-
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
  - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
  - (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent threedimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or a subset thereof.
- 53. A method as claimed in claim 52 wherein the receptor is EGFR and the topographic region of EGFR is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.
  - 54. A method as claimed in claim 53 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of EGFR defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of

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EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

- 55. A method as claimed in claim 52 wherein the receptor is ErbB-2 and the topographic region of ErbB2 is the surface defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 56. A method as claimed in claim 55 wherein the compound is selected or designed to have portions that match residues positioned on the surface of ErbB2 defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface of ErbB2 defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
  - 57. A method as claimed in claim 52 wherein the receptor is ErbB-3 and the topographic region of ErbB-3 is the ligand binding surface defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.
- 58. A method as claimed in claim 57 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-3 defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface of ErbB-3 defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.
  - 59. A method as claimed in claim 52 wherein the receptor is ErbB-4 and the topographic region of ErbB-4 is the ligand binding surface defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.

- 60. A method as claimed in claim 59 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-4 defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface of ErbB-4 defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.
- 61. A method as claimed in claim 52 wherein the compound is selected or designed to interact with a site within 5 Å of atomic positions of the EGF receptor listed in Appendices III or IV or corresponding regions of other members of the EGF receptor family, such that the compound interferes allosterically with the binding of a natural ligand to a member of the EGF receptor family.

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62. A method as claimed in claim 52 wherein the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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63. A method as claimed in claim 62 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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64. A method as claimed in claim 52 wherein the receptor is ErbB-2 and the topographic region of the ErbB-2 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids

84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

A method as claimed in claim 64 which further comprises selecting or 65. designing a compound which has portions that match residues positioned on the dimer interface of ErbB-2 defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

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A method as claimed in claim 52 wherein the receptor is ErbB-3 and the 66. topographic region of the ErbB-3 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

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A method as claimed in claim 66 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-3 defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

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A method as claimed in claim 52 wherein the receptor is ErbB-4 and the 68. topographic region of the ErbB-4 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277. 280-281 and 283-286.

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69. A method as claimed in claim 68 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-4 defined by amino acids 40, 88, 196, 197, 206.

- 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
- 70. A method as claimed in any one of claims 62 to 69 wherein the compound is designed or selected to comprise a first domain which interacts with the dimer interface of a first EGF receptor family member and a second domain which interacts with the dimer interface of a second EGF receptor family member.

- 71. A method as claimed in any one of claims 52 to 70 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M.
- 72. A method as claimed in any one of claims 52 to 71 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-8</sup>M
- 73. A method as claimed in any one of claims 52 to 72 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-9</sup>M.
  - 74. A method as claimed in any one of claims 52 to 73 wherein the compound is selected or modified from a known compound identified from a data base.
  - 75. A method as claimed in any one of claims 52 to 74 wherein the disease is selected from the group consisting of psoriasis and tumour states.
- 76. A method as claimed in claim 75 wherein the tumour state is selected from the group consisting of cancer of the breast, brain, colon, prostate, ovary, cervix, pancreas, lung, head and neck, and melanoma, rhabdomyosarcoma, mesothelioma, squamous carcinomas of the skin and glioblastoma.
- 35 77. A method for evaluating the ability of a chemical entity to bind to EGFR, said method comprising the steps of:

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- (a) creating a computer model of at least one region of EGFR using structure coordinates wherein the root mean square deviation between said structure coordinates and the structure coordinates of amino acids 1-501 of EGFR as set forth in Appendix I or Appendix II is not more than about 1.5 Å;
- (b) employing computational means to perform a fitting operation between the chemical entity and said computer model of the binding surface; and

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- (c) analysing the results of said fitting operation to quantify the association between the chemical entity and the binding surface model.
- 78. A method of utilizing molecular replacement to obtain structural information about a molecule or a molecular complex of unknown structure, comprising the steps of:
  - (i) crystallising said molecule or molecular complex;
    - (ii) generating an X-ray diffraction pattern from said crystallized molecule or molecular complex;
    - (iii) applying at least a portion of the structure coordinates set forth in Appendix I or Appendix II to the X-ray diffraction pattern to generate a three-dimensional electron density map of at least a portion of the molecule or molecular complex whose structure is unknown.
- 79. A crystalline composition comprising amino acids 1-501 of the EGF receptor or a portion thereof.
  - 80. A method of assessing the interaction between a compound and the EGF receptor, the method comprising exposing a crystalline composition comprising amino acids 1-501 of the EGF receptor or a portion thereof to the compound and measuring the level of binding to the crystal.
  - 81. A polypeptide complex in a crystallized form comprising the amino acids 1-501 of EGFR and  $TGF\alpha$ .
- 35 82. A variant of a ligand of the EGF receptor family in which the sequence of the ligand is modified such that the ability to interact with the L1 domain of the

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member of the EGF receptor family is retained or increased and the ability to interact with the L2 domain of the member of the EGF receptor family is removed or decreased, or *vice versa*.

- 5 83. A variant of a ligand of the EGF receptor family in which the sequence of the ligand is modified such that the ability to interact with the L1 domain of a member of the EGF receptor family is retained or increased and the ability to interact with the L2 domain of a member of the EGF receptor family is retained or increased, with the proviso that the binding to at least one of L1 or L2 is increased.
  - A variant as claimed in claim 82 or claim 83 in which the ligand is selected from the group consisting of EGF, TGF- $\alpha$ , amphiregulin, HB-EGF, betacellulin, epiregulin, epigen, NRG1 $\alpha$ , NRG1 $\beta$ , NRG2 $\alpha$ , NRG3 and NRG4.
  - 85. A variant as claimed in claim 84 wherein the ligand is  $TGF\alpha$ .
- 86. A TGF $\alpha$  variant as claimed in claim 85 wherein the TGF $\alpha$  is modified at one more amino acids selected from the group consisting of amino acids 3-5, 8, 9, 11-15, 17, 18, 22, 24, 26, 27, 29-34, 36 and 38-50.
  - 87. An extracellular fragment of EGFR, wherein the fragment is modified at one or more amino acids selected from the group consisting of
  - (i) amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467, or
    - (ii) amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318,
- wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.
  - 88. An extracellular fragment of ErbB-2, wherein the fragment is modified at one or more amino acids selected from the group consisting of

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- (i) amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135, 136, 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475, or
- (ii) amino acids 36, 84, 201-203, 211, 212, 236, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326.

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

- 89. An extracellular fragment of ErbB-3, wherein the fragment is modified at one or more amino acids selected from the group consisting of
  - (i) amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131, 132, 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466, or
  - (ii) amino acids 41, 89, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287, 317.

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

- 90. An extracellular fragment of ErbB-4, wherein the fragment is modified at one or more amino acids selected from the group consisting of
  - (i) amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468, or
  - (ii) amino acids 40, 88, 195-197, 206, 207, 231, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319.

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

- 91. An extracellular fragment of EGFR wherein the fragment is modified at one or more amino acids of EGFR selected from the group consisting of:
  - (i) amino acids 5, 6, 8-10, 19, 21-25, 28, 32, 33, 38, 39, 40, 42, 44, 47, 48, 50, 63, 64, 66, 68, 71, 73, 87, 88, 91-94, 96, 104-107, 109, 123, 130, 131, 151-160, 315-324, 326, 328, 329, 331, 332, 343, 344, 351, 359-363, 379, 380, 385, 387, 388, 394, 404-407, 410, 413, 420, 434-436, 440, 441, 443, 448, 449, 461-464, 466-468; or

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(ii) amino acids 1-6, 8,9, 11, 30, 35, 36, 39, 40, 60, 62-64, 82, 84, 85, 87-89, 94, 118, 120-122, 148, 187-193, 196-198, 200-203, 209-211, 213, 215, 217-221, 231-233, 235, 237, 238, 241, 243, 244, 247, 254-261, 266, 268-270, 272-274, 276, 277, 281, 289-297, 299-301, 303, 304, 311, 312, 314-317, 319-323, 335, 340, 342-344, 346, 376, 378-380, 403-412, 434, 459,

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

10 92. An extracellular fragment of ErbB-2 wherein the fragment is modified at one or more amino acids of ErbB-2 selected from the group consisting of:

(i) amino acids 3,4, 6-8, 17, 19-23, 26, 30, 31, 36, 37, 38, 40, 42, 45, 46, 48, 61, 62, 64, 66, 69, 71, 85, 86, 89-92, 94, 102-115, 117, 131, 138, 139, 159-168, 323-323, 334, 336, 337, 339, 340, 351, 352, 359, 367-371, 387, 388, 393, 395, 397, 402, 412-415, 418, 421, 428, 442-444, 448, 449, 451, 456, 457, 469-472, and 472-476, or
(ii) amino acids 1-4, 6, 7, 9, 28, 33, 34, 37, 38, 58, 60-62, 80, 82, 83, 85-87, 92, 126, 128-130, 156, 195-201, 204-206, 208-211, 217-219, 221, 223, 225-229, 239-241, 243, 245, 246, 249, 251, 252, 255, 262-269, 274, 276-278, 280-282, 284, 285, 289, 297-305, 307-309, 311, 312, 319, 320, 322-325, 327-231, 343, 348, 350-352, 354, 384, 386-388, 411-420, 442, and 467,

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

93. An extracellular fragment of ErbB-3 wherein the fragment is modified at one or more amino acids of ErbB-3 selected from the group consisting of:

(i) amino acids 8, 9, 11-13, 22, 24-28, 31, 35, 36, 41, 42, 43, 45, 47, 50, 51, 53, 66, 67, 69, 71, 74, 76, 90, 91, 94-97, 99, 107-111, 113, 127, 134, 135, 154-159, 314-321, 323, 325, 326, 328, 329, 340, 341, 348, 356-360, 376, 373, 382, 384, 385, 391, 401-404, 407, 410, 418, 432-434, 438, 439, 441, 446, 447, 459-462, and 464-466, or
(ii) amino acids 4-9, 11, 12, 14, 33, 38, 39, 42, 43, 63, 65-67, 85, 87, 88, 90-92, 97, 122, 124-126, 152, 187-193, 196-198, 200-203, 209-211, 213, 215, 217-221, 231-233, 235, 237, 238, 241, 243, 244, 247, 254-261, 266, 268-270, 272-274, 276, 277, 280, 288-296, 298-300, 302, 303, 310,

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311, 313-316, 318-320, 332, 337, 339-341, 343, 373, 375-377, 400-409, 432 and 457,

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

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- 94. An extracellular fragment of ErbB-4 wherein the fragment is modified at one or more amino acids of ErbB-4 selected from the group consisting of:
  - (i) amino acids 7, 8, 10-12, 21, 23-27, 30, 34, 35, 40, 41, 42, 44, 46, 49, 50, 52, 65, 66, 68, 70, 73, 75, 89, 90, 93-96, 98, 106-110, 112, 126, 133, 134, 154-163, 316-325, 327, 329, 330, 332, 333, 344, 345, 352, 360-364, 380, 381, 386, 388, 389, 395, 405-408, 413, 421, 435-437, 441, 442, 444, 449, 450, 462-465 and 467-469 or (ii) amino acids 3-8, 10, 11 13, 32, 37, 38, 41, 42, 62, 64-66, 84, 86, 87, 89-91, 96, 121, 123-125, 151, 189-195, 198-200, 202-205, 207-213, 215, 217, 219-223, 233-235, 237, 239, 240, 243, 245, 246, 249, 256-263,

217, 219-223, 233-235, 237, 239, 240, 243, 245, 246, 249, 256-263, 268, 270-272, 274-276, 278, 279, 282, 290-298, 300-302, 304, 305, 312, 313, 315-318, 320-324, 336, 341, 343-345, 347, 377, 379-381, 404-412, 435 and 460

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

95. A compound comprising fragment 1-501 of EGFR or an equivalent fragment of a member of the EGF receptor family, wherein the fragment is modified to induce dimerisation of the fragment in back-to-back configuration.

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- 96. A compound as claimed in claim 95 wherein the modification is made to a residue of the fragment which forms part of the back-to-back dimer interface.
- 97. A compound as claimed in claim 96 wherein the modification involves substitution of at least one residue which forms part of the back to back dimer with a cysteine residue.
  - 98. A compound comprising fragment 1-501 of EGFR wherein the fragment comprises the substitution P248C and/or A265C.

- 99. A compound comprising fragment 1-501 of EGFR wherein the fragment comprises the substitution D279C.
- 100. A compound as claimed in claim 95 wherein the modification involvesinsertion of a dimerization sequence into the fragment.
  - 101. A compound as claimed in claim 100 wherein the dimerization sequence is inserted between residues 194 and 195 or between residues 204 and 205 of EGFR or equivalent residues of another member of the EGF receptor family.
- 102. A compound as claimed in any one of claims 95 to 101 wherein the fragment is conjugated to a molecule.
- 103. A compound as claimed in claim 102 wherein the molecule is a constantdomain of an immunoglobulin molecule.
  - 104. An antibody which binds to EGFR, the antibody being directed against (i) EGFR residues 100-108, 315-327 or 353-362; or (ii) EGFR residues 190-207, 240-305 or parts thereof.
  - 105. An antibody which binds to ErbB-2, the antibody being directed against (i) ErbB-2 residues 98-116, 323-335 or 361-374; or (ii) ErbB-2 residues 198-214, 247-313 or parts thereof.
- 106. An antibody which binds to ErbB-3, the antibody being directed against
  (i) ErbB-3 residues 103-112, 314-324 or 350-363; or (ii) ErbB-3 residues 190-207, 240-304 or parts thereof.
- 107. An antibody which binds to ErbB-4, the antibody being directed against (i) ErbB-4 residues 102-111, 316-328, 354-367; or (ii) ErbB-4 residues 192-209, 242-306 or parts thereof.

Table 1 Summary of crystallographic data

Data set I	Resolution (Å) Mean Us	Mean I/s	R <sub>merge</sub> (	Completeness (%) No of sites (Multiplicity)	No of sites	Rcullis	Phasing Power <sup>‡</sup> f.o.m. <sup>§</sup>	f.o.m. <sup>§</sup>
Native	2.9	11.1	0.129	96.9 (2.78)				0.31/0.84
$Pt(NO_3)_2$	2.8	11.9	0.095	97.8 (3.85)	4	0.71	0.71	
PIP	2.5	10.8	0.075	90.2 (3.17)	7	0.91	0.91	
K <sub>2</sub> Au(CN) <sub>2</sub>	3.0	9.1	0.091	97.8 (3.43)	4	0.21	2.21	
Refinement Resolution (Å)		No. of reflections (free)	No. of atoms	18 Reryst	. Rfree	Bonds	Bonds <sup>¶</sup> (Å)Angles <sup>¶</sup> (°)	
20-2.5	48006	48006 (2379)	. 8687	0.237	0.289	0.007	1.50	

PIP, di- $\mu$ -iodobis(ethylenediamine)diplatinum nitrate (Unit cell a=52.02 Å, b=198.17 Å, c=78.43 Å,  $\beta=102.95^{\circ}$ )

\*  $R_{mergo} = \sum_{h} \sum_{j} |I_{h,j} - I_{h}| / \sum_{h} \sum_{j} I_{h}$ , where  $I_{h,j}$  is an intensity measurement j and  $I_h$  is the mean for a reflection h.

<sup>†</sup>  $R_{\text{Cullis}} = \Sigma_h ||F_{\text{PH}} - F_{\text{P}}| - |F_{\text{Hoale}}|| / \Sigma_h ||F_{\text{PH}}| - |F_{\text{P}}||$ , where  $F_{\text{PH}}$ ,  $F_{\text{P}}$  and  $F_{\text{Hoale}}$  are, respectively, derivative, native and heavy atom structure factors for centric reflection h.

† Phasing power =  $\Sigma_h |F_{\text{Heale}}| / \Sigma_h \epsilon$ , where  $F_{\text{Heale}}$  is defined above and  $\epsilon$  is the lack of closure.

f.o.m. (figure of merit) =  $\langle \cos(\Delta \alpha_h) \rangle$ , where  $\Delta \alpha_h$  is the error in the phase angle for reflection h. Values are given before and after density modification.

# Reryst and Rfree are defined in .

R.m.s. deviation for bond distances and angles.

## 1/10

KKCEGPCRKVCNGI GI GEFKDSLSINATNI KHFKNCTSI SGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGEL EKCSKPCARVCYGLGMEHLREVRAVTSANI QEFAGCKKI FGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYL EPCGGLCPKACEGTGSGSRFQTVDSSNI DGFVNCTKILGNLDFLITGLNGDPWHKI PALDPEKINVFRTVREITGYL KPCTDI CPKACEGTGSGSRFQTVDSSNI DKFINCTKINGNLI FLVTGIHGDPYNAI EAIDPEKLNVFRTVREITGFL LIQAWPENRTDLHAFENLEI IRGRTKQHGQFSLAVVSL-NITSLGLRSLKEI SDGDVI I SGNKNLCYANTINWKKLFGT YI SAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLQGL-GI SWLGLRSLKEI SDGDVI I SGNKNLCYANTINWKKLFGT NIQSWPPNMHNFSVFSNLTTI GGRSLYNRGFSLLIMKNINVTSLGFRSLKEI SAGRIYI SANRQLCYHHSLNWTTKVTRG NIQSWPPNMTDFSVFSNLVTI GGRVLYS-GLSLLIMKNINVTSLGFRSLKEI SAGRIYI SANRQLCYHHSLNWTTLFST	LVCRKFRDEATCKDTCPPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVYTDHGSCVRACGADSYEMEED-GVRKC LACLHENHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRC FACRHFNDSGACVPRCPQPLVYNKLTFQLEPNPHTKYQYGGVCVASCPHNFVVDQ-TSCVRACPPDKMEVDKN-GLKMC FACMNFNDSGACVTQCPQTFVYNPTTFQLEHNĖNAKYTYGAFCVKKCPHNFVVDS-SSCVRACPSSKMEVEEN-GIKMC	DFONHIGSCOKCDPSCPNGSCWGAGEENCOKLIKIICAQOCSGRCRGKSPSDCCHNQCAAGCTGPRESDC IDTNRSRACHPCSPMCKGSRCWGESSEDCOSLIRTVCAGGCA-RCKGPLPTDCCHEQCAAGCTGPKHSDC KD-NG-RSCPPCHEVCKG-RCWGPGSEDCOTLIKTICAPQCNGHCFGPNPNQCCHDECAGGCSGPQDTDC VSTNGSSGCGRCHKSCTG-RCWGPTENHCQTLIRTVCAEQCDGRCYGPYVSDCCHRECAGGCSGPKDTDC		LENLQIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVS LQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQIRSLTEILKGGVLIQRNPQLCYQDTILWKDIFH LDNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEILSGGVYIEKNDKLCHMDTIDWRDIVR LENLRIIRGTKLYEDRYALAIFLNYRKDGNFGLQELGLKNLTEILNGGVYVDQNKFLCYADTIHWQDIVR
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ENR DSL PHM	SPCRK KPCAR SLCPK DICPK	RKERDE LHENHS RHENDS MNENDS EGPCRK SKPCAR GGLCPK	SDELSNMSMDE KNNQLALTLID DRDA-EIVVKD NPWPSNLTLVS LVCRKERDEAT LACLHENHSGI EACRHENDSGA FACMNFNDSGA KKCEGPCRKVC ERCSKPCARVC ERCSKPCARVC	LENLOITRGNM LORLANTSTO LDNLRVVRGTQ LENLRITRGTR LENLRITRGTR SDFLSNMSMDF KNNQLALTLID DRDA-EIVVKD NPWPSNLTLVS LVCRKFRDEAT LACLHFNHSGI FACRHFNDSGA FACRHFNDSGA KKCEGPCRKVC EKCSKPCARVC ERCSKPCARVC EPCGGLCPKAC

Figure 2

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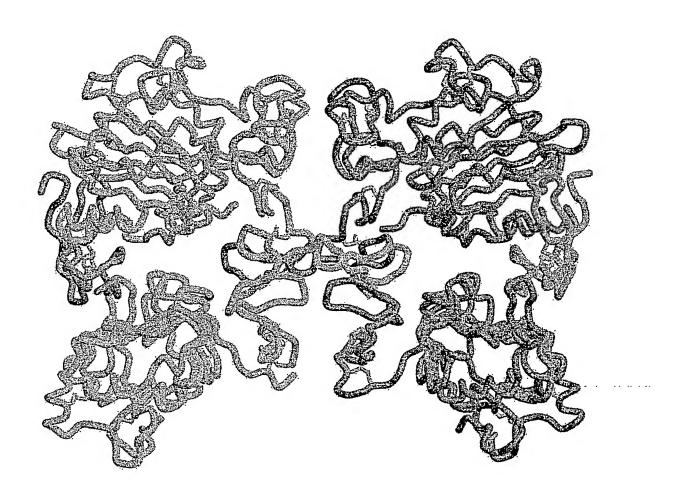


Figure 3

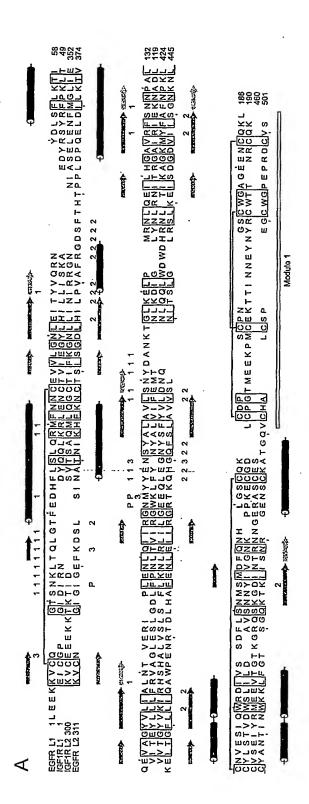


Figure 4A

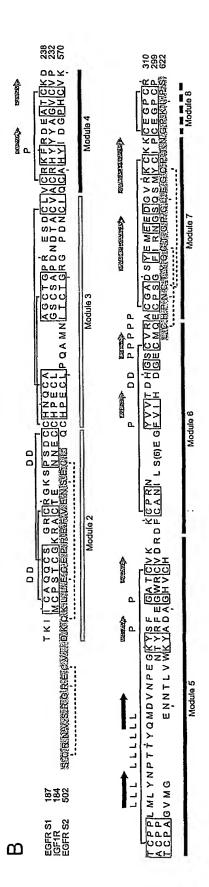


Figure 4B

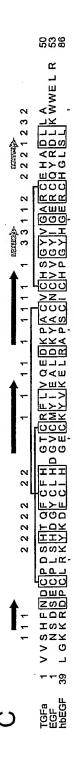


Figure 4C

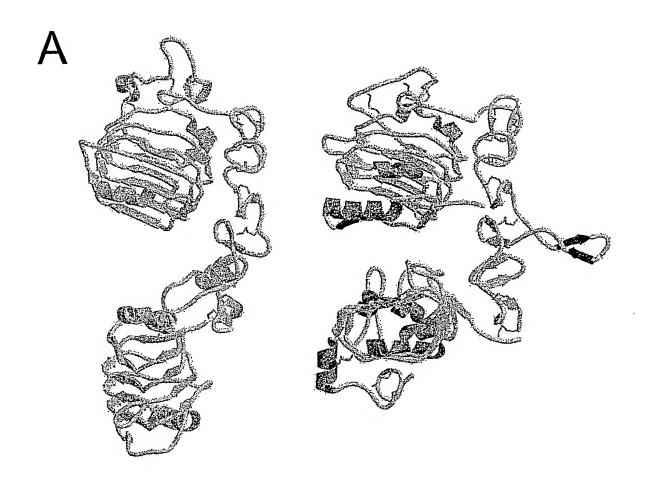


Figure 5

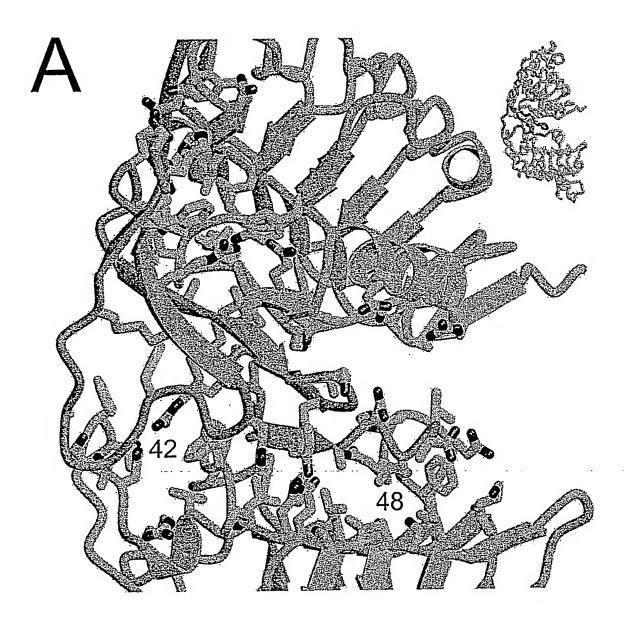


Figure 6

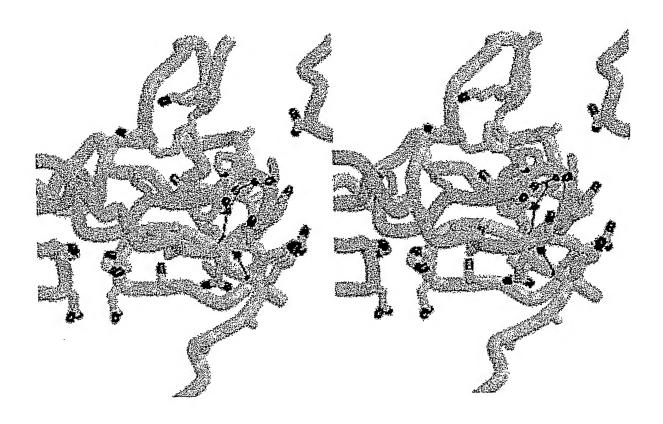


Figure 7

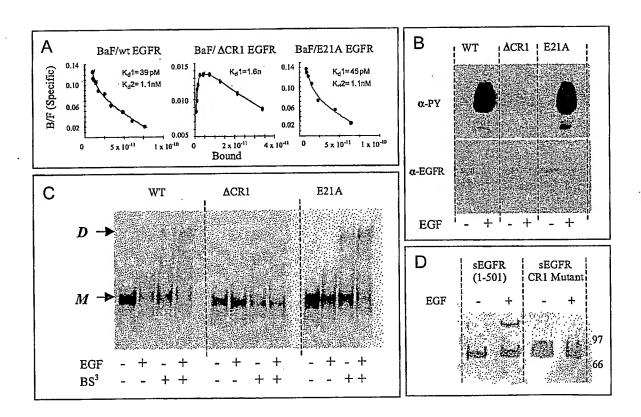


Figure 8

## SEQUENCE LISTING

- <110> Commonwealth Scientific and Industrial Research Organisation Ludwig Institute for Cancer Research Walter and Eliza Hall Institute of Medical Research Biomolecular Research Institute Limited
- <120> Methods of screening based on the EGF receptor crsytal structure
- <130> 500853
- <150> AU PR 6827
- <151> 2001-08-03
- <150> AU PR 6828
- <151> 2001-08-03
- <150> USSN 60/336,560
- <151> 2001-11-01
- <150> USSN 60/335,393
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- <151> 2002-06-11
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Asn Pro Ala Leu Cys Asn Val Glu Ser Ile Gln Trp Arg Asp Ile Val 130 135 140

Ser Ser Asp Phe Leu Ser Asn Met Ser Met Asp Phe Gln Asn His Leu 145 150 155 160

Gly Ser Cys Gln Lys Cys Asp Pro Ser Cys Pro Asn Gly Ser Cys Trp 165 170 175

Gly Ala Gly Glu Glu Asn Cys Gln Lys Leu Thr Lys Ile Ile Cys Ala 180 185 190

Gln Gln Cys Ser Gly Arg Cys Arg Gly Lys Ser Pro Ser Asp Cys Cys 195 200 205

His Asn Gln Cys Ala Ala Gly Cys Thr Gly Pro Arg Glu Ser Asp Cys 210 215 220

Leu Val Cys Arg Lys Phe Arg Asp Glu Ala Thr Cys Lys Asp Thr Cys 225 230 235 240

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Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser 100 105 110

Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu 115 120 125

Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln Leu Cys Tyr Gln Asp 130 135 140

Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu 145 150 155 160

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195 200 205

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Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala 260 265 270

Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu Ser Thr Asp Val Gly

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Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln Glu Val Thr Ala Glu 290 295 300

Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val 305 310 315 320

Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr 325 330 335

Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser 340 345 350

Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr 355 360 365

Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu 370 375 380

Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp 385 390 395 400

Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His 405 410 415

Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu 420 425 430

Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His 435 440 445

His Asn Thr His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu 450 455 460

Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro Glu 470 475 480

Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg
485 490 495

Gly His Cys Trp Gly Pro Gly Pro Thr Gln Cys Val Asn 500 505

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<212> PRT

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Leu Ser Val Thr Gly Asp Ala Glu Asn Gln Tyr Gln Thr Leu Tyr Lys 20 25 30

Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu Ile Val Leu 35 40 45

Thr Gly His Asn Ala Asp Leu Ser Phe Leu Gln Trp Ile Arg Glu Val 50 55 60

Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr Leu Pro Leu 65 70 75 80

Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp Gly Lys Phe 85 90 95

Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser His Ala Leu 100 105 110

Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser Gly Gly Val 115 120 125

Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr Ile Asp Trp 130 135 140

Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val Lys Asp Asn 145 150 155 160

Gly Arg Ser Cys Pro Pro Cys His Glu Val Cys Lys Gly Arg Cys Trp 165 170 175

Gly Pro Gly Ser Glu Asp Cys Gln Thr Leu Thr Lys Thr Ile Cys Ala 180 185 190

Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn Gln Cys Cys 195 200 205

His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp Thr Asp Cys 210 215 220

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Phe Ala Cys Arg His Phe Asn Asp Ser Gly Ala Cys Val Pro Arg Cys 

Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu Glu Pro Asn 

Pro His Thr Lys Tyr Gln Tyr Gly Gly Val Cys Val Ala Ser Cys Pro 

His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala Cys Pro Pro 

Asp Lys Met Glu Val Asp Lys Asn Gly Leu Lys Met Cys Glu Pro Cys 

Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser Gly Ser Arg 

Phe Gln Thr Val Asp Ser Ser Asn Ile Asp Gly Phe Val Asn Cys Thr 

Lys Ile Leu Gly Asn Leu Asp Phe Leu Ile Thr Gly Leu Asn Gly Asp 

Pro Trp His Lys Ile Pro Ala Leu Asp Pro Glu Lys Leu Asn Val Phe 

Arg Thr Val Arg Glu Ile Thr Gly Tyr Leu Asn Ile Gln Ser Trp Pro 

Pro His Met His Asn Phe Ser Val Phe Ser Asn Leu Thr Thr Ile Gly 

Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile Met Lys Asn 

Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu Ile Ser Ala 

Gly Arg Ile Tyr Ile Ser Ala Asn Arg Gln Leu Cys Tyr His His Ser 

Leu Asn Trp Thr Lys Val Leu Arg Gly Pro Thr Glu Glu Arg Leu Asp 

Ile Lys His Asn Arg Pro Arg Arg Asp Cys Val Ala Glu Gly Lys Val

465 470 475 480

Cys Asp Pro Leu Cys Ser Ser Gly Gly Cys Trp Gly Pro Gly Pro Gly 485 490 495

Gln Cys Leu Ser 500

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<211> 502

<212> PRT

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Gln Pro Ser Asp Ser Gln Ser Val Cys Ala Gly Thr Glu Asn Lys Leu 1 5 10 15

Ser Ser Leu Ser Asp Leu Glu Gln Gln Tyr Arg Ala Leu Arg Lys Tyr 20 25 30

Tyr Glu Asn Cys Glu Val Val Met Gly Asn Leu Glu Ile Thr Ser Ile 35 40 45

Glu His Asn Arg Asp Leu Ser Phe Leu Arg Ser Val Arg Glu Val Thr 50 55 60

Gly Tyr Val Leu Val Ala Leu Asn Gln Phe Arg Tyr Leu Pro Leu Glu 65 70 75 80

Asn Leu Arg Ile Ile Arg Gly Thr Lys Leu Tyr Glu Asp Arg Tyr Ala 85 90 95

Leu Ala Ile Phe Leu Asn Tyr Arg Lys Asp Gly Asn Phe Gly Leu Gln 100 . 105 110

Glu Leu Gly Leu Lys Asn Leu Thr Glu Ile Leu Asn Gly Gly Val Tyr 115 120 125

Val Asp Gln Asn Lys Phe Leu Cys Tyr Ala Asp Thr Ile His Trp Gln 130 135 140

Asp Ile Val Arg Asn Pro Trp Pro Ser Asn Leu Thr Leu Val Ser Thr 145 150 155 160

Asn Gly Ser Ser Gly Cys Gly Arg Cys His Lys Ser Cys Thr Gly Arg 165 170 175 Cys Trp Gly Pro Thr Glu Asn His Cys Gln Thr Leu Thr Arg Thr Val 180 185 190

Cys Ala Glu Gln Cys Asp Gly Arg Cys Tyr Gly Pro Tyr Val Ser Asp 195 200 205

Cys Cys His Arg Glu Cys Ala Gly Gly Cys Ser Gly Pro Lys Asp Thr 210 215 220

Asp Cys Phe Ala Cys Met Asn Phe Asn Asp Ser Gly Ala Cys Val Thr 225 230 235 240

Gln Cys Pro Gln Thr Phe Val Tyr Asn Pro Thr Thr Phe Gln Leu Glu 245 250 255

His Asn Phe Asn Ala Lys Tyr Thr Tyr Gly Ala Phe Cys Val Lys Lys 260 265 270

Cys Pro His Asn Phe Val Val Asp Ser Ser Ser Cys Val Arg Ala Cys 275 280 285

Pro Ser Ser Lys Met Glu Val Glu Glu Asn Gly Ile Lys Met Cys Lys 290 295 300

Pro Cys Thr Asp Ile Cys Pro Lys Ala Cys Asp Gly Ile Gly Thr Gly 305 310 315 320

Ser Leu Met Ser Ala Gln Thr Val Asp Ser Ser Asn Ile Asp Lys Phe 325 330 335

Ile Asn Cys Thr Lys Ile Asn Gly Asn Leu Ile Phe Leu Val Thr Gly 340 345 350

Ile His Gly Asp Pro Tyr Asn Ala Ile Glu Ala Ile Asp Pro Glu Lys 355 360 365

Leu Asn Val Phe Arg Thr Val Arg Glu Ile Thr Gly Phe Leu Asn Ile 370 375 380

Gln Ser Trp Pro Pro Asn Met Thr Asp Phe Ser Val Phe Ser Asn Leu 385 390 395 400

Val Thr Ile Gly Gly Arg Val Leu Tyr Ser Gly Leu Ser Leu Leu Ile 405 410 415

Leu Lys Gln Gln Gly Ile Thr Ser Leu Gln Phe Gln Ser Leu Lys Glu 420 425 430

Ile Ser Ala Gly Asn Ile Tyr Ile Thr Asp Asn Ser Asn Leu Cys Tyr 435 440 445

Tyr His Thr Ile Asn Trp Thr Thr Leu Phe Ser Thr Ile Asn Gln Arg 450 455 460

Ile Val Ile Arg Asp Asn Arg Lys Ala Glu Asn Cys Thr Ala Glu Gly 465 470 475 480

Met Val Cys Asn His Leu Cys Ser Ser Asp Gly Cys Trp Gly Pro Gly 485 490 495

Pro Asp Gln Cys Leu Ser 500

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Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn 20 25 30

Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys 35 40 45

Trp Trp Glu Leu Arg 50

<210> 6

<211> 52

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<213> Homo sapiens

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Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys 1 5 10 15

Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys 20 25 30

Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu 40

Leu Ala Val Val

<210> 7

<211> 44

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Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe Cys Ile His

Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr Cys Lys Cys 20

Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys 40

<210> 8

<211> 50

<212> PRT

<213> Homo sapiens

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Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys Ile His 5 10

Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys Ile Cys 30 20

His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu Pro Val

Glu Asn 50

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Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys 10

Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
20 25 30

Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Leu Phe Tyr 35 40 45

Leu Arg 50

<210> 10

<211> 50

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Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg Cys 20 25 30

Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe Leu Thr Val 35 40  $^{\prime}$  45

His Gln 50

<210> 11

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<400> 11

Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn 1 5 10 15

Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile Cys Arg Cys 20 25 30

Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr Leu Thr Ser 35 40 45

Tyr Ala 50

<210> 12

<211> 53

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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30

Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn

Val Pro Met Lys Val 50

<210> 13

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<400> 13

Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30

Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 45

Val Met Ala Ser Phe 50

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Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys 20 25 30

Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys Leu Pro Leu 35 40 45

...\*

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Asp His Glu Gln Pro Cys Gly Pro Arg His Arg Ser Phe Cys Leu Asn . 10

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Cys Ile Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val Phe Leu Pro 35 40 45

Ser Ser 50

<210> 18

<211> 186

<212> PRT

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Leu Gly Thr Phe Glu Asp His Phe Leu Ser Leu Gln Arg Met Phe Asn 20 25 30

Asn Cys Glu Val Val Leu Gly Asn Leu Glu Ile Thr Tyr Val Gln Arg 35 40 45

Asn Tyr Asp Leu Ser Phe Leu Lys Thr Ile Gln Glu Val Ala Gly Tyr 50 55 60

Val Leu Ile Ala Leu Asn Thr Val Glu Arg Ile Pro Leu Glu Asn Leu 65 70 75 80

Gln Ile Ile Arg Gly Asn Met Tyr Tyr Glu Asn Ser Tyr Ala Leu Ala 85 90 95

Val Leu Ser Asn Tyr Asp Ala Asn Lys Thr Gly Leu Lys Glu Leu Pro 100 105 110

Met Arg Asn Leu Gln Glu Ile Leu His Gly Ala Val Arg Phe Ser Asn 115 120 125

Asn Pro Ala Leu Cys Asn Val Glu Ser Ile Gln Trp Arg Asp Ile Val 130 135 140

Ser Ser Asp Phe Leu Ser Asn Met Ser Met Asp Phe Gln Asn His Leu 145 150 155 160 The Gov Gue Gly Ive Gue Den Bro Son Gue Bro Asn Gly Ser

Gly Ser Cys Gln Lys Cys Asp Pro Ser Cys Pro Asn Gly Ser Cys Trp 165 170 175

Gly Ala Gly Glu Glu Asn Cys Gln Lys Leu 180 185

<210> 19

<211> 183

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Lys Arg Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu 20 25 30

Leu Ile Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu 35 40 45

Thr Val Ile Thr Glu Tyr Leu Leu Phe Arg Val Ala Gly Leu Glu 50 55 60

Ser Leu Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys 70 75 80

Leu Phe Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys 85 90 95

Asp Ile Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Ala Ile Arg 100 105 110

Ile Glu Lys Asn Ala Asp Leu Cys Tyr Leu Ser Thr Val Asp Trp Ser 115 120 125

Leu Ile Leu Asp Ala Val Ser Asn Asn Tyr Ile Val Gly Asn Lys Pro 130 135 140

Pro Lys Glu Cys Gly Asp Leu Cys Pro Gly Thr Met Glu Glu Lys Pro 145 150 155 160

Met Cys Glu Lys Thr Thr Ile Asn Asn Glu Tyr Asn Tyr Arg Cys Trp 165 170 175

Thr Thr Asn Arg Cys Gln Lys 180

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<210> 20

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Ile Asn Ile Arg Arg Gly Asn Asn Ile Ala Ser Glu Leu Glu Asn Phe

Met Gly Leu Ile Glu Val Val Thr Gly Tyr Val Lys Ile Arg His Ser

His Ala Leu Val Ser Leu Ser Phe Leu Lys Asn Leu Arg Leu Ile Leu 75 70

Gly Glu Glu Gln Leu Glu Gly Asn Tyr Ser Phe Tyr Val Leu Asp Asn

Gln Asn Leu Gln Gln Leu Trp Asp Trp Asp His Arg Asn Leu Thr Ile 100 105

Lys Ala Gly Lys Met Tyr Phe Ala Phe Asn Pro Lys Leu Cys Val Ser 115 120

Glu Ile Tyr Arg Met Glu Glu Val Thr Gly Thr Lys Gly Arg Gln Ser 135

Lys Gly Asp Ile Asn Thr Arg Asn Asn Gly Glu Arg Ala Ser Cys Glu 155 150

Ser

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<213> Homo sapiens

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Lys Val Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser

15

10

18/21

5

Ile Asn Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser 20 25 30

Gly Asp Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr 35 40 45

His Thr Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val 50 55 60

Lys Glu Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg 65 70 75 80

Thr Asp Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr 85 90 95

Lys Gln His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr
100 105 110

Ser Leu Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile 115 120 125

Ile Ser Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys 130 135 140

Lys Leu Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg 145 150 155 160

Gly Glu Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys 165 170 . 175

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Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg Cys Arg Gly Lys
1 10 15

Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys Thr Gly 20 25 30

Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe Arg Asp Glu Ala 35 40 45

Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro Thr Thr 50 55 60

Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly Ala Thr 65 70 75 80

Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His Gly Ser 85 90 95

Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu Asp Gly
100 105 110

Val Arg Lys Cys Lys Cys Glu Gly Pro Cys Arg 115 120

<210> 23

<211> 116

<212> PRT

<213> Homo sapiens

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Met Cys Pro Ser Thr Cys Gly Lys Arg Ala Cys Thr Glu Asn Asn Glu 1 5 10 15

Cys Cys His Pro Glu Cys Leu Gly Ser Cys Ser Ala Pro Asp Asn Asp 20 25 30

Thr Ala Cys Val Ala Cys Arg His Tyr Tyr Tyr Ala Gly Val Cys Val
35 40 45

Pro Ala Cys Pro Pro Asn Thr Tyr Arg Phe Glu Gly Trp Arg Cys Val 50 55 60

Asp Arg Asp Phe Cys Ala Asn Ile Leu Ser Ala Glu Ser Ser Asp Ser 65 70 75 80

Glu Gly Phe Val Ile His Asp Gly Glu Cys Met Gln Glu Cys Pro Ser 85 90 95

Gly Phe Ile Arg Asn Gly Ser Gln Ser Met Tyr Cys Ile Pro Cys Glu 100 105 110

Gly Pro Cys Pro

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115

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Ser Cys Arg Asn Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Lys

Leu Leu Glu Gly Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile 25 20

Gln Cys His Pro Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr 40

Gly Arg Gly Pro Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly 50 55

Pro His Cys Val Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn

Thr Leu Val Trp Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys

His Pro Asn Cys Thr Tyr Gly Cys Thr Gly Pro Gly Leu Glu Gly Cys 100 105

Pro Thr Asn Gly Pro Lys Ile Pro Ser 120 115

<210> 25

<211> 50

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<213> Homo sapiens

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Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys

Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys 30 20 25

Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu

Leu Ala 50

<210> 26

<211> 53

<212> PRT

<213> Homo sapiens

<400> 26

Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His 1 5 10 15

Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn 20 25 30

Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys 35 40 45

Trp Trp Glu Leu Arg 50

<210> 27

<211> 48

<212> PRT

<213> Homo sapiens

<400> 27

Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys 1 5 10 15

Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys 20 25 30

Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu 35 40 45

## APPENDIX I

RYST1 REMARK	51.5		198.7	10	78	.900 90.00	102.03	90.00 P	21	
ATOM	1	CB	ALA	А	2	-6.061	46.522	26.989	1.00 58.81	AAAA
ATOM	2	C	ALA		2	-6.041	44.455	25.567	1.00 60.47	AAAA
ATOM	3	ō	ALA		2	-7.074	44.097	26.139	1.00 61.40	AAAA
ATOM	4	N	ALA		2	-5.771	46.741	24.537	1.00 58.41	AAAA
ATOM	5	CA	ALA		2	-5.491	45.878	25.727	1.00° 59.64	AAAA
ATOM	6	N	GLU	Α	3	-5.329	43.654	24.781	1.00 60.74	AAAA
ATOM	7	CA	GLU	А	3	-5.676	42.260	24.509	1.00 59.78	AAAA
ATOM	8	CB	GLU	Α	3	-6.908	42.174	23.603	1.00 59.83	AAAA
ATOM	9	CG	GLU	Α	3	-7.359	40.754	23.297	0.01 60.15	AAAA
MOTA	10	CD	GLU	Α	3	-8.566	40.711	22.381	0.01 60.22	AAAA
MOTA	11	OE1	GLU	Α	3	-8.470	41.219	21.244	0.01 60.23	AAAA
ATOM	12	OE2	GLU	Α	3	-9.612	40.170	22.799	0.01 60.24	AAAA
ATOM	13	С	GLU	Α	3	-4.460	41.704	23.786	1.00 59.00	AAAA
ATOM	14	0	GLU	A	3	-4.512	41.401	22.598	1.00 59.20	AAAA
ATOM	15	N	LYS		4	-3.363	41.594	24.526	1.00 58.54	AAAA
ATOM	16	CA	LYS		4	-2.090	41.115	24.003	1.00 57.83	AAAA
ATOM	17	CB	LYS		4	-1.317	42.322	23.462	1.00 57.36	AAAA
MOTA	18	CG	LYS		4	0.125	42.055	23.113	1.00 59.34	AAAA
ATOM	19	CD	LYS		4	0.764	43.260	22.433	1.00 59.63	AAAA
MOTA	20	CE	LYS		4	0.260	43.436	21.012	1.00 59.41	AAAA
ATOM	21	NZ	LYS		4	0.959	44.554	20.333	1.00 58.90	AAAA AAAA
ATOM	22	C	LYS		4	-1.307 -1.211	40.406	25.127 26.232	1.00 56.93 1.00 56.97	AAAA
ATOM	23	0	LYS		4 5	-0.763	40.936 39.217	24.851	1.00 55.84	AAAA
ATOM	24	N CA	LYS LYS		5	-0.011	38.443	25.858	1.00 55.45	AAAA
MOTA MOTA	25 26	CB	LYS		5	0.492	37.119	25.270	1.00 55.60	AAAA
ATOM	27	CG	LYS		5	-0.574	36.217	24.678	1.00 56.14	AAAA
ATOM	28	CD	LYS		5	-1.618	35.806	25.705	1.00 57.47	AAAA
ATOM	29	CE	LYS		5	-1.029	34.939	26.807	1.00 58.42	AAAA
ATOM	30	NZ	LYS		5	-2.090	34.422	27.726	1.00 59.38	AAAA
ATOM	31	c	LYS		5	1.195	39.187	26.437	1.00 55.15	AAAA
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ATOM	34	CA	VAL		6	2.436	39.861	28.417	1.00 52.08	AAAA
ATOM	35	CB	VAL		6	1.982	41.185	29.057	1.00 51.87	AAAA
MOTA	36	CG1	VAL	Α	6	1.430	42.115	27.990	0.01 51.98	AAAA
ATOM	37	CG2	VAL	Α	6	0.928	40.914	30.120	0.01 51.99	AAAA
ATOM	38	C	VAL	Α	6	3.011	38.954	29.495	1.00 51.28	AAAA
MOTA	39	0	VAL		6	2.311	38.089	30.003	1.00 51.30	AAAA
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MOTA	41	CA	CYS		7	4.923	38.314	30.863	1.00 51.02	AAAA
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ATOM	44	CB	CYS		7	5.724 7.007	37.187 37.748	30.218 29.053	1.00 55.51	AAAA
ATOM	45 46	SG N	CYS GLN		7 8	6.065	38.644	32.985	1.00 49.52	AAAA
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ATOM	48	CB	GLN		8	7.076	38.526	35.255	1.00 50.66	AAAA
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ATOM	50	CD	GLN		8	4.563	38.693	35.614	1.00 59.06	AAAA
ATOM	51		GLN		8	4.502	39.828	36.103	1.00 61.39	AAAA
ATOM	52		GLN		8	3.553	38.147	34.935	1.00 60.49	AAAA
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ATOM	55	N	GLY	Α	9	9.308	39.024	33.980	1.00 42.16	AAAA
ATOM	56	CA	GLY	Α	9	10.644	39.240	33.466	1.00 39.11	AAAA
ATOM	57	С	GLY	Α	9	11.642	38.293	34.079	1.00 35.76	AAAA
ATOM	58	0	GLY	А	9	11.282	37.218	34.527	1.00 35.38	AAAA
MOTA	59	N	THR		10	12.900	38.700	34.102	1.00 33.10	AAAA
ATOM	60	CA	THR		10	13.949	37.873	34.665	1.00 31.42	AAAA
MOTA	61	CB	THR		10	14.401	36.809	33.662	1.00 30.13	AAAA
ATOM	62		THR		10	13.388	35.812	33.532	1.00 27.61	AAAA
ATOM	63	CG2			10	15.668	36.161	34.113	1.00 31.72	AAAA AAAA
ATOM	64	C	THR		10	15.128	38.752	35.028	1.00 31.82	AAAA AAAA
MOTA	65	0	THR		10	15.921	39.110	34.177	1.00 32.51 1.00 31.41	AAAA
MOTA	66	N	SER		11	15.238	39.103 39.949	36.300 36.763	1.00 31.41	AAAA
ATOM	67 68	CA CB	SER SER		11 11	16.323 15.814	40.805	37.925	1.00 30.43	AAAA
ATOM ATOM	68 69	OG	SER		11	16.526	42.021	38.035	1.00 30.33	AAAA
ATOM	70	C	SER		11	17.537	39.102	37.189	1.00 29.54	AAAA
				-	-		- · -			

MOTA	71	0	SER A	11	18.512	39.613	37.722	1.00 29.25	AAAA
ATOM	72	N	ASN A		17.470	37.803	36.932	1.00 28.62	AAAA
ATOM	73	CA	ASN A		18.547	36.875	37.278	1.00 28.35	AAAA
ATOM	74	CB	ASN A		18.214	35.457	36.765		
ATOM	75	CG						1.00 29.25	AAAA
			ASN A		17.133	34.730	37.589	1.00 28.99	AAAA
ATOM	76		ASN A		16.591	33.726	37.131	1.00 27.16	AAAA
ATOM	77	ND2	ASN A	. 12	16.840	35.213	38.795	1.00 27.67	AAAA
ATOM	78	С	ASN A	. 12	19.922	37.266	36.713	1.00 27.48	AAAA
ATOM	79	0	ASN A	. 12	20.926	36.674	37.089	1.00 27.50	AAAA
ATOM	80	N	LYS A		19.966	38.241	35.807	1.00 27.44	AAAA
ATOM	81	CA	LYS A						
					21.218	38.670	35.161	1.00 26.93	AAAA
ATOM	82	CB	LYS A		22.047	39.562	36.091	1.00 26.91	AAAA
· ATOM	83	CG	LYS A		21.659	41.035	36.099	1.00 26.67	AAAA
ATOM	84	CD	LYS A	. 13	22.535	41.830	37.053	0.01 26.20	AAAA
ATOM	85	CE	LYS A	13	22.125	43.293	37.090	0.01 25.99	AAAA
ATOM	86	NZ	LYS A	13	22.217	43.926	35.746	0.01 26.11	AAAA
ATOM	87	C	LYS A		22.105	37.522	34.656	1.00 28.09	AAAA
ATOM	88	Ö	LYS A						
					21.739	36.792	33.721	1.00 28.64	AAAA
ATOM	89	N	LEU A		23.274	37.357	35.274	1.00 27.62	AAAA
ATOM	90	CA	LEU A	. 14	24.209	36.320	34.846	1.00 26.42	AAAA
ATOM	91	CB	LEU A	. 14	25.618	36.907	34.733	1.00 25.41	AAAA
ATOM	92	CG	LEU A	. 14	25.915	37.843	33.568	1.00 25.14	AAAA
ATOM	93	CD1	LEU A	14	27.348	38.304	33.623	1.00 26.46	AAAA
ATOM	94		LEU A						
					25.677	37.110	32.278	1.00 26.96	AAAA
ATOM	95	С	LEU A		24.256	35.063	35.713	1.00 26.50	AAAA
MOTA	96	0	LEU A		25.029	34.151	35.434	1.00 27.83	AAAA
ATOM	97	N	THR A	. 15	23.448	35.012	36.764	1.00 24.32	AAAA
ATOM	98	CA	THR A	15	23.426	33.838	37.633	1.00 22.53	AAAA
ATOM	99	CB	THR A	15	22.522	34.052	38.859	1.00 22.12	AAAA
ATOM	100		THR A		23.142	34.968	39.765	1.00 22.07	AAAA
ATOM	101		THR A		22.248	32.744	39.551		
								1.00 18.60	AAAA
ATOM	102	С	THR A		22.853	32.676	36.856	1.00 22.48	AAAA
ATOM	103	0	THR A		22.181	32.881	35.852	1.00 22.65	AAAA
ATOM	104	N	GLN A	. 16	23.120	31.461	37.325	1.00 22.82	AAAA
ATOM	105	CA	GLN A	. 16	22.597	30.266	36.688	1.00 24.49	AAAA
ATOM	106	CB	GLN A	. 16	23.712	29.370	36.173	1.00 24.75	AAAA
ATOM	107	CG	GLN A		23.172	28.162	35.437	1.00 28.55	AAAA
ATOM	108	CD	GLN A						
					24.261	27.227	34.944	1.00 30.72	AAAA
ATOM	109		GLN A		25.216	27.650	34.287	1.00 30.40	AAAA
ATOM	110		GLN A		24.116	25.942	35.253	1.00 29.88	AAAA
MOTA	111	С	GLN A	. 16	21.783	29.503	37.711	1.00 26.08	AAAA
ATOM	112	0	GLN A	. 16	22.325	29.042	38.713	1.00 26.14	AAAA
ATOM	113	N	LEU A	. 17	20.481	29.383	37.441	1.00 27.26	AAAA
ATOM	114	CA	LEU A	. 17	19.520	28.696	38.306	1.00 25.85	AAAA
ATOM	115	CB	LEU A		18.095	29.048	37.897	1.00 24.13	AAAA
ATOM									
	116	CG	LEU A		17.748	30.462	37.457	1.00 21.42	AAAA
ATOM	117		LEU A		16.330	30.445	36.961	1.00 18.67	AAAA
MOTA	118		LEU A		17.924	31.441	38.589	1.00 20.21	AAAA
ATOM	119	С	LEU A	. 17	19.666	27.192	38.214	1.00 27.12	AAAA
ATOM	120	0	LEU A	17	18.939	26.549	37.474	1.00 27.57	AAAA
ATOM	121	N	GLY A	. 18	20.598	26.636	38.976	1.00 29.90	AAAA
ATOM	122	CA	GLY A		20.819	25.204		1.00 30.29	AAAA
ATOM	123	C	GLY A		21.522	24.743	37.702	1.00 30.23	AAAA
ATOM	124	ō	GLY A						
					22.425	25.410	37.194	1.00 31.99	AAAA
ATOM	125	N	THR A		21.083	23.596	3 <b>7.1</b> 97	1.00 32.53	AAAA
ATOM	126	CA	THR A		21.639	22.968	35.997	1.00 32.87	AAAA
MOTA	127	CB	THR A	19	21.363	21.447	36.043	1.00 33.47	AAAA
ATOM	128	OG1	THR A	. 19	19.962	21.220	36.262	1.00 32.74	AAAA
ATOM	129		THR A		22.158	20.800	37.169	1.00 32.55	AAAA
ATOM	130	С	THR A		21.105	23.528	34.659	1.00 32.18	AAAA
ATOM	131	0	THR A		20.057		34.624	1.00 31.79	
						24.184			AAAA
ATOM	132	N	PHE A		21.825	23.254	33.565	1.00 30.46	AAAA
MOTA	133	CA	PHE A		21.418	23.720	32.236	1.00 28.37	AAAA
ATOM	134	CB	PHE A		22.319	23.153	31.146	1.00 24.21	AAAA
MOTA	135	CG	PHE A	20	23.681	23.732	31.128	1.00 20.28	AAAA
MOTA	136	CD1	PHE A	20	24.776	22.930	30.873	1.00 19.31	AAAA
ATOM	137		PHE A		23.877	25.075	31.371	1.00 20.48	AAAA
ATOM	138		PHE A		26.046	23.449		1.00 20.48	AAAA
							30.864		
ATOM	139		PHE A		25.148	25.616	31.365	1.00 21.29	AAAA
MOTA	140	CZ	PHE A		26.239	24.802	31.112	1.00 22.08	AAAA
ATOM	141	С	PHE A		19.992	23.324	31.915	1.00 29.87	AAAA
ATOM	142	0	PHE A	20	19.193	24.164	31.491	1.00 29.62	AAAA
ATOM	143	N	GLU A	21	19.672	22.044	32.098	1.00 30.85	AAAA
ATOM	144	CA	GLU A		18.319	21.587	31.813	1.00 33.50	AAAA
ATOM	145	CB	GLU A		18.175	20.083		1.00 33.30	AAAA
1.1001	2.10	30	CHO F		10.113	20.003	32.012	1.00 04.00	vvvv,

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ATOM	146	CG	GLU	A	21	16.851	19.555	31.472	1.00 36.13	AAAA
ATOM	147	CD	GLU	A	21	16.576	18.123	31.871	1.00 38.47	AAAA
ATOM	148	OÈ1	GLU	A	21	17.462	17.261	31.688	1.00 39.21	AAAA
ATOM	149	OE2	GLU	Α	21	15.460	17.856	32.369	1.00 40.67	AAAA
ATOM	150	С	GLU	A	21 .	17.317	22.301	32.711	1.00 34.17	AAAA
ATOM	151	0	GLU	A	21	16.226	22.664	32.271	1.00 33.71	AAAA
ATOM	152	N	ASP	Α	22	17.678	22.504	33.972	1.00 34.19	AAAA
ATOM	153	CA	ASP	Α	22	16.769	23.194	34.864	1.00 35.05	AAAA
ATOM	154	CB	ASP	Α	22	17.263	23.124	36.303	1.00 36.03	AAAA
ATOM	155	CG	ASP	А	22	16.600	22.006	37.076	1.00 37.68	AAAA
ATOM	156	OD1	ASP	A	22	15.386	21.797	36.851	1.00 37.16	AAAA
ATOM	157	OD2	ASP	Α	22	17.277	21.349	37.899	1.00 38.05	AAAA
ATOM	158	С	ASP	Α	22	16.635	24.630	34.418	1.00 34.40	AAAA
ATOM	159	0	ASP	Α	22	15.545	25.110	34.129	1.00 34.49	AAAA
ATOM	160	N	HIS	Α	23	17.763	25.313	34.360	1.00 34.16	AAAA
ATOM	161	CA	HIS	Α	23	17.785	26.691	33.921	1.00 33.28	AAAA
ATOM	162	CB	HIS	Α	23	19.217	27.040	33.507	1.00 31.13	AAAA
ATOM	163	CG	HIS	Α	23	19.479	28.506	33.351	1.00 28.13	AAAA
ATOM	164	CD2	HIS	Α	23	20.627	29.213	33.458	1.00 25.84	AAAA
ATOM	165	ND1	HIS	Α	23	18.511	29.404	32.962	1.00 25.93	AAAA
ATOM	166	CE1	HIS	А	23	19.052	30.600	32.835	1.00 25.36	AAAA
MOTA	167	NE2	HIS	A	23	20.335	30.510	33.129	1.00 24.68	AAAA
ATOM	168	С	HIS	Α	23	16.822	26.786	32.724	1.00 33.99	AAAA
MOTA	169	0	HIS	A	23	15.841	27.533	32.761	1.00 33.75	AAAA
ATOM	170	N	PHE	A	24	17.073	25.988	31.685	1.00 33.86	AAAA
ATOM	171	CA	PHE	A	24	16.235	26.032	30.492	1.00 33.10	AAAA
ATOM	172	CB	PHE	Α	24	16.553	24.879	29.533	1.00 33.34	AAAA
MOTA	173	CG	PHE	Α	24 ·	15.655	24.850	28.324	1.00 34.12	AAAA
ATOM	174	CD1	PHE	Α	24	15.921	25.651	27.223	1.00 34.03	AAAA
ATOM	175		PHE	Α	24	14.468	24.123	28.343	1.00 34.13	AAAA
MOTA	176	CE1	PHE	A	24	15.013	25.738	26.170	1.00 33.43	AAAA
ATOM	177	CE2	PHE	A	24	13.560	24.207	27.295	1.00 33.55	AAAA
ATOM	178	CZ	PHE	Α	24	13.831	25.017	26.211	1.00 33.44	AAAA
ATOM	179	С	PHE	Α	24	14.757	25.988	30.814	1.00 32.79	AAAA
ATOM	180	0	PHE	A	24	14.007	26.902	30.493	1.00 31.72	AAAA
ATOM	181	N	LEU		25 ·	14.338	24.899	31.437	1.00 33.00	AAAA
ATOM	182	CA	LEU		25	12.942	24.733	31.788	1.00 32.52	AAAA
MOTA	183	CB	FEA		25	12.800	23.672	32.883	1.00 31.77	AAAA
ATOM	184	CG	LEU		25	12.793	22.204	32.445	1.00 32.63	AAAA
ATOM	185		LEU		25	13.788	21.963	31.329	1.00 32.24	AAAA
ATOM	186		LEU		25	13.106	21.335	33.641	1.00 33.06	AAAA
ATOM	187	C	LEU		25	12.327	26.041	32.242	1.00 32.17	AAAA
ATOM	188	0	LEU		25	11.276	26.437	31.742	1.00 31.88	AAAA
ATOM	189	И	SER		26	12.997	26.720	33.169	1.00 32.02	AAAA
ATOM	190	CA	SER		26	12.481	27.973	33.708	1.00 32.64	AAAA
ATOM	191	CB	SER		26	13.391	28.498	34.823	1.00 34.43	AAAA
ATOM	192	OG	SER		26	13.250	27.748	36.026	1.00 35.86	AAAA AAAA
ATOM	193	C	SER	_	26	12.348	29.012	32.622	1.00 32.40 1.00 32.32	AAAA
ATOM	194	0	SER		26	11.366	29.744	32.556		AAAA
ATOM	195	N	LEU		27	13.349	29.064	31.758 30.658	1.00 32.84 1.00 31.91	AAAA
ATOM	196	CA	LEU		27	13.345	30.010 29.750	29.738	1.00 31.91	AAAA
ATOM	197	CB	LEU		27 27	14.531 14.682	30.703	28.561	1.00 29.38	AAAA
ATOM	198	CG CD1	LEU		27		32.102	29.065	1.00 29.54	AAAA
ATOM	199		LEU		27	14.997		27.654	1.00 29.92	AAAA
ATOM	200		LEU		27	15.781 12.061	30.192 29.828	29.883	1.00 29.92	AAAA
ATOM	201	0	LEU		27	11.334	30.780	29.625	1.00 34.88	AAAA
ATOM	202	N	LEU GLN		28	11.779	28.583	29.533	1.00 31.30	AAAA
ATOM	203 204	CA	GLN		28	10.598	28.251	28.758	1.00 30.41	AAAA
ATOM	205	CB	GLN		28	10.649	26.772	28.379	1.00 32.28	AAAA
ATOM ATOM	205	CG	GLN		28	9.376	26.201	27.787	1.00 32.26	AAAA
	207	CD	GLN		28.	9.613	24.846	27.159	1.00 32.58	AAAA
ATOM ATOM	208		GLN		28	8.673	24.138	26.814	1.00 34.10	AAAA
MOTA	209		GLN		28 -	10.880	24.484	26.997	1.00 30.49	AAAA
ATOM	210	C	GLN		28	9.296	28.572	29.450	1.00 29.28	AAAA
ATOM	211	Ö	GLN		28	8.336	28.947	28.798	1.00 28.59	AAAA
ATOM	212	N	ARG		29	9.262	28.431	30.768	1.00 28.98	·· AAAA
ATOM	213	CA	ARG		29	8.044	28.699	31.506	1.00 30.05	AAAA
ATOM	214	CB	ARG		29	8.197	28.312	32.971	1.00 30.95	AAAA
ATOM	215	CG	ARG		29	8.287	26.821	33.231	1.00 34.32	AAAA
	216	CD	ARG		29	8.424	26.494	34.720	1.00 35.70	. AAAA
ATOM	217	NE	ARG	•	29.	7.250	26.872	35.505	1.00 37.88	AAAA
ATOM	218	CZ	ARG		29	6.940	28.116	35.866	1.00 40.08	AAAA
ATOM	219		ARG		29	7.714	29.131	35.511	1.00 41.01	AAAA
ATOM	220		ARG		29	5.861	28.346	36.614	1.00 41.07	AAAA
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ATOM 222 O ARG A 29 6.542 30.493 31.082 1.00 31.01 AAAA ATOM 223 N MET A 30 8.619 31.003 31.782 1.00 32.18 AAAA ATOM 224 CA MET A 30 8.398 32.442 31.779 1.00 33.97 AAAA											
APON   223	ATOM						7.668	30.150	31.432	1.00 30.86	AAAA AAAA
MYON         224         CA         MET A         30         8.398         22.442         31.779         1.00         33.97         AAAA           ATOM         227         CB         MET A         30         9.653         31.651         30.2261         1.00         33.34         AAAA           ATOM         227         SD         MET A         30         9.653         31.679         32.151         1.00         33.34         AAAA           ATOM         228         CE         MET A         30         9.655         31.673         33.153         1.00         34.78         AAAA           ATOM         230         C         MET A         30         9.095         35.530         31.01         30.00         35.543         AAAA           ATOM         230         C         MET A         31         6.613         33.13         30.370         1.00         36.18         AAAA           ATOM         235         CB PHE A         31         10.540         34.323         27.980         1.00         36.18         AAAA           ATOM         236         CDIP HE A         31         10.540         34.323         27.99         1.00         34.97											
APON   226	ATOM						8.398				
APPEN   227   SD   MET   A   30	MOTA										
APACH   228   CE   MET R   30   9.205   35.530   34.726   1.00   34.78   AAAA   AAAA   AAAA   AAAA   228   C   MET R   30   7.907   33.861   30.370   1.00   35.52   AAAA   AAAA   AAAA   AAAA   233   C   MET R   31   8.612   32.562   29.352   1.00   36.10   AAAA   AAAAA   AAAA   AAAA   AAAA   AAAA   AAAA   AAAA   AAAA   AAAA   AAAAA   AAAAA   AAAA   AAAA   AAAAA											
APON   229											
AROM 230 O MET A 30 7.077 33.861 30.370 1.00 36.18 AAAA AROM 232 CA PHE A 31 8.331 33.113 28.039 1.00 37.10 AAAA AROM 232 CA PHE A 31 8.331 33.113 28.039 1.00 37.10 AAAA AROM 233 CB PHE A 31 10.540 34.323 27.980 1.00 36.24 AAAA AROM 234 CG PHE A 31 10.540 34.323 27.980 1.00 36.90 AAAA AROM 236 CD2 PHE A 31 10.540 34.323 27.980 1.00 36.90 AAAA AROM 236 CD2 PHE A 31 10.293 35.688 27.879 1.00 36.90 AAAA AROM 236 CD2 PHE A 31 10.293 35.688 27.879 1.00 36.99 AAAA AROM 236 CD2 PHE A 31 10.293 35.688 27.879 1.00 36.99 AAAA AROM 236 CD2 PHE A 31 10.295 35.608 28.983 1.00 36.16 AAAA AROM 236 CD2 PHE A 31 10.035 26.08 28.983 1.00 36.16 AAAA AROM 240 C PHE A 31 7.355 32.420 27.122 1.00 36.16 AAAA AROM 241 O PHE A 31 7.355 32.420 27.122 1.00 36.16 AAAA AROM 241 O PHE A 31 7.355 32.420 27.122 1.00 36.40 AAAA AROM 242 N ASN A 32 6.882 31.240 27.121 1.00 41.62 AAAA AROM 242 N ASN A 32 6.882 31.240 27.121 1.00 41.62 AAAA AROM 245 CG ASN A 32 5.387 29.284 27.355 1.00 41.62 AAAA AROM 246 CG ASN A 32 5.387 29.284 27.355 1.00 41.62 AAAA AROM 246 CG ASN A 32 5.367 29.284 27.355 1.00 48.44 AAAA AROM 246 CG ASN A 32 5.570 28.096 26.076 1.00 35.27 AAAA AROM 246 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 246 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 247 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 248 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 247 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 248 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 247 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 248 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 248 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 248 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 248 CG ASN A 32 5.708 28.096 26.076 1.00 35.73 AAAA AROM 248 CG ASN A 33 2.208 28.908 25.243 1.00 53.73 AAAA AROM 250 CG ASN A 33 2.208 28.908 25.243 1.00 53.73 AAAA AROM 250 CG ASN A 33 2.208 28.908 28.908 28.908 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.909 28.90											
NOW   232   CA   PHE N 31						30	7.077	33.861			
NOW   233   CR   PHE N   31											
AAAA   ACA											
ARAM											
APACH   237   CEI   PHE A   31   12   357   34.799   29.502   1.00   36.86   AAAA   AROM   238   CE2   PHE A   31   12   357   34.799   29.502   1.00   36.61   AAAA   AROM   240   CZ   PHE A   31   7.355   32.420   27.122   1.00   38.64   AAAA   AROM   240   CZ   PHE A   31   7.355   32.420   27.122   1.00   38.64   AAAA   AROM   241   CZ   PHE A   31   7.355   32.420   27.122   1.00   38.64   AAAA   AROM   241   CZ   PHE A   31   7.355   32.420   27.122   1.00   38.64   AAAA   AROM   242   N   ASN A   32   C.882   31.240   27.491   1.00   41.62   AAAA   AROM   243   CA   ASN A   32   S.897   29.284   27.315   1.00   44.06   AAAA   AROM   244   CB   ASN A   32   S.897   29.284   27.315   1.00   44.06   AAAA   AROM   246   CG   ASN A   32   S.897   29.284   27.315   1.00   48.44   AAAA   AROM   246   CG   ASN A   32   S.897   29.284   27.315   1.00   48.44   AAAA   AROM   246   CG   ASN A   32   S.897   29.284   27.315   1.00   48.44   AAAA   AROM   247   CA   CA   ASN A   32   S.897   29.284   27.315   1.00   43.57   AAAA   AROM   248   C   ASN A   32   4.691   31.484   26.246   1.00   53.73   AAAA   AROM   249   C   ASN A   32   4.691   31.484   26.246   1.00   43.01   AAAA   AROM   249   C   ASN A   33   4.697   31.773   24.949   1.00   43.97   AAAA   AROM   249   C   ASN A   33   4.697   31.773   24.949   1.00   43.97   AAAA   AROM   250   N   ASN A   33   2.279   32.100   24.831   1.00   43.23   AAAA   AROM   255   CA   ASN A   33   2.275   34.850   24.691   1.00   43.23   AAAA   AROM   255   ND2   ASN A   33   2.275   34.850   24.460   1.00   43.90   AAAA   AROM   255   ND2   ASN A   33   3.710   34.117   24.719   1.00   44.61   AAAA   AROM   255   ND2   ASN A   33   3.710   34.117   24.719   1.00   44.61   AAAA   AROM   255   ND2   ASN A   33   3.710   34.117   24.719   1.00   44.61   AAAA   AROM   256   C   ASN A   33   3.710   34.117   24.719   1.00   44.61   AAAA   AROM   257   ASN A   33   3.545   32.565   32.596   3.00   30.44   44.50   44.50   AAAA   AROM   257   C   ASN A   33   3.545   32.626											AAAA
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ATOM 259 CA CYS A 34							2.750	34.850			
ATOM 260 C CYS A 34											
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ATOM 269 OE1 GLU A 35							2.491		21.458		
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ATOM 282 CB VAL A 37 9.148 40.629 27.754 1.00 31.02 AAAA ATOM 283 CG1 VAL A 37 9.977 40.448 29.002 1.00 30.13 AAAA ATOM 284 CG2 VAL A 37 8.944 39.293 27.095 1.00 30.51 AAAA ATOM 285 C VAL A 37 7.999 42.527 28.909 1.00 31.31 AAAA ATOM 286 O VAL A 37 8.938 43.273 28.653 1.00 31.29 AAAA ATOM 287 N LEU A 38 7.102 42.787 29.860 1.00 30.71 AAAA ATOM 288 CA LEU A 38 7.241 43.952 30.732 1.00 29.78 AAAA ATOM 289 CB LEU A 38 6.077 44.012 31.723 1.00 30.16 AAAA ATOM 290 CG LEU A 38 4.746 44.675 31.338 1.00 31.38 AAAA ATOM 291 CD1 LEU A 38 4.474 44.510 29.847 1.00 32.46 AAAA ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 29.65 AAAA ATOM 294 O LEU A 38 8.530 43.659 31.467 1.00 29.45											
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ATOM 285 C VAL A 37 7.999 42.527 28.909 1.00 31.31 AAAA ATOM 286 O VAL A 37 8.938 43.273 28.653 1.00 31.29 AAAA ATOM 287 N LEU A 38 7.102 42.787 29.860 1.00 30.71 AAAA ATOM 288 CA LEU A 38 7.241 43.952 30.732 1.00 29.78 AAAA ATOM 289 CB LEU A 38 6.077 44.012 31.723 1.00 30.16 AAAA ATOM 290 CG LEU A 38 4.746 44.675 31.338 1.00 31.38 AAAA ATOM 291 CD1 LEU A 38 4.474 44.510 29.847 1.00 32.46 AAAA ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45	ATOM			. VAI	A	37	9.977	40.448			
ATOM 286 O VAL A 37 8.938 43.273 28.653 1.00 31.29 AAAA ATOM 287 N LEU A 38 7.102 42.787 29.860 1.00 30.71 AAAA ATOM 288 CA LEU A 38 7.241 43.952 30.732 1.00 29.78 AAAA ATOM 289 CB LEU A 38 6.077 44.012 31.723 1.00 30.16 AAAA ATOM 290 CG LEU A 38 4.746 44.675 31.338 1.00 31.38 AAAA ATOM 291 CD1 LEU A 38 4.474 44.510 29.847 1.00 32.46 AAAA ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45											
ATOM 287 N LEU A 38 7.102 42.787 29.860 1.00 30.71 AAAA ATOM 288 CA LEU A 38 7.241 43.952 30.732 1.00 29.78 AAAA ATOM 289 CB LEU A 38 6.077 44.012 31.723 1.00 30.16 AAAA ATOM 290 CG LEU A 38 4.746 44.675 31.338 1.00 31.38 AAAA ATOM 291 CD1 LEU A 38 4.474 44.510 29.847 1.00 32.46 AAAA ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45 AAAA											
ATOM 288 CA LEU A 38 7.241 43.952 30.732 1.00 29.78 AAAA ATOM 289 CB LEU A 38 6.077 44.012 31.723 1.00 30.16 AAAA ATOM 290 CG LEU A 38 4.746 44.675 31.338 1.00 31.38 AAAA ATOM 291 CD1 LEU A 38 4.474 44.510 29.847 1.00 32.46 AAAA ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45								_			
ATOM 289 CB LEU A 38 6.077 44.012 31.723 1.00 30.16 AAAA ATOM 290 CG LEU A 38 4.746 44.675 31.338 1.00 31.38 AAAA ATOM 291 CD1 LEU A 38 4.474 44.510 29.847 1.00 32.46 AAAA ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45 AAAA									30.732	1.00 29.78	
ATOM 291 CD1 LEU A 38 4.474 44.510 29.847 1.00 32.46 AAAA ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45 AAAA		289		LE	JA						
ATOM 292 CD2 LEU A 38 3.610 44.078 32.183 1.00 29.58 AAAA ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45 AAAA											
ATOM 293 C LEU A 38 8.530 43.659 31.467 1.00 28.81 AAAA ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45 AAAA											
ATOM 294 O LEU A 38 8.700 42.574 31.988 1.00 29.45 AAAA										1.00 28.81	AAAA
ATOM 295 N GLY A 39 9.466 44.583 31.499 1.00 28.67 AAAA	ATOM	294	0	LE	J A	38	8.700	42.574			
	MOTA	295	N	GL.	ΥA	. 39	9.466	44.583	31.499	1.00 28.67	AAAA

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ATOM	296	CA	GLY	A	39	10.688	44.251	32.200	1.00 31.77	AAAA
ATOM	297	Ç	GLY		39	11.844	43.841	31.313	1.00 33.15	AAAA
ATOM	298	0	GLY		39	12.163	44.542	30.358	1.00 33.73	AAAA
ATOM ATOM	299 300	N CA	ASN ASN		40 40	12.477 13.638	42.708 42.328	31.594 30.789	1.00 33.63	AAAA AAAA
ATOM	301	CB	ASN		40	14.910	42.588	31.601	1.00 35.35	AAAA
ATOM	302	CG	ASN		40	15.068	44.052	31.988	1.00 36.64	AAAA
ATOM	303		ASN		40	14.142	44.845	31.863	1.00 39.26	AAAA
ATOM	304	ND2	ASN	Α	40	16.240	44.409	32.471	1.00 35.29	AAAA
ATOM	305	С	ASN		40	13.675	40.910	30.221	1.00 34.66	AAAA
ATOM	306	0	ASN		40	13.087	39.983	30.780	1.00 35.72	AAAA
ATOM	307	N	LEU		41	14.379	40.759	29.098	1.00 33.18	AAAA
ATOM ATOM	308 309	CA CB	LEU LEU		41 41	14.515 14.208	39.469 39.624	28.424 26.931	1.00 31.96 1.00 31.70	AAAA AAAA
ATOM	310	CG	LEU		41	14.399	38.428	25.992	1.00 29.59	AAAA
ATOM	311		LEU		41	13.458	37.325	26.360	1.00 29.35	AAAA
ATOM	312		LEU		41	14.166	38.873	24.563	1.00 29.14	AAAA
ATOM	313	С	LEU	Α	41	15.931	38.935	28.616	1.00 31.60	AAAA
ATOM	314	0	LEU		41	16.879	39.453	28.038	1.00 30.57	AAAA
ATOM	315	N	GLU		42	16.063	37.895	29.434	1.00 31.22	AAAA
ATOM ATOM	316 317	CA CB	GLU GLU		42 42	17.358 17.582	37.307 37.284	29.732 31.241	1.00 29.63 1.00 28.39	AAAA AAAA
ATOM ·	318	CG	GLU		42	18.001	38.625	31.827	1.00 28.39	AAAA
ATOM	319	CD	GLU		42	18.216	38.576	33.332	1.00 32.60	AAAA
ATOM	320		GLU		42	18.631	39.603	33.926	1.00 31.42	AAAA
ATOM	321	OE2	GLU	A	42	17.957	37.505	33.920	1.00 32.54	AAAA
ATOM	322	С	GLU	A	42	17.508	35.914	29.189	1.00 29.51	AAAA
ATOM	323	0	GLU		42	17.044	34.967	29.798	1.00 30.37	AAAA
ATOM	324	N	ILE		43	18.158	35.794	28.038	1.00 30.12	AAAA
ATOM	325	CA		A	43 43	18.402 18.289	34.498 34.596	27.405	1.00 30.24 1.00 28.68	AAAA AAAA
ATOM ATOM	326 327	CB	ILE	A	43	18.475	33.237	25.881 25.276	1.00 28.08	AAAA
ATOM	328		ILE		43	16.931	35.163	25.489	1.00 28.56	AAAA
ATOM	329		ILE		43	15.772	34.440	26.111	1.00 29.75	AAAA
ATOM	330	С	ILE	Α	43	19.814	34.027	27.764	1.00 31.05	AAAA
MOTA	331	0		Α	43	20.811	34.465	27.171	1.00 30.94	AAAA
ATOM	332	N	THR		44	19.897	33.114	28.724	1.00 31.13	AAAA
ATOM ATOM	333 334	CA CB	THR		44 44	21.198 21.561	32.648 · 33.366	30.506	1.00 31.78 1.00 32.62	AAAA AAAA
ATOM	335		THR		44	22.611	32.659	31.170	1.00 34.46	AAAA
ATOM	336		THR		44	20.356	33.448	31.427	1.00 31.31	AAAA
ATOM	337	С	THR	Α	44	21.426	31.134	29.328	1.00 30.98	AAAA
ATOM	338	0	THR		44	20.514	30.370	29.628	1.00 29.97	AAAA
ATOM	339	N	TYR		45	22.670	30.728	29.095	1.00 30.43	AAAA
ATOM	340	CA	TYR		45	23.124	29.352	29.228	1.00 30.09 1.00 30.57	AAAA AAAA
ATOM ATOM	341 342	CB CG	TYR TYR		45 45	23.073 24.010	28.959 29.752	30.697 31.556	1.00 30.37	AAAA
ATOM	343		TYR		45	23.527	30.627	32.518	1.00 31.33	AAAA
ATOM	344		TYR		45	24.390	31.390	33.291	1.00 32.40	AAAA
ATOM	345		TYR		45	25.386	29.651	31.389	1.00 32.87	AAAA
ATOM	346		TYR		45	26.258	30.405	32.160	1.00 33.92	AAAA
ATOM	347	CZ	TYR		45	25.753	31.278	33.109	1.00 33.76	AAAA
ATOM	348	ОН	TYR		45 45	26.612 22.477	32.053 28.243	33.856 28.396	1.00 34.93 1.00 30.71	AAAA AAAA
ATOM ATOM	349 350	C 0	TYR TYR		45	22.759	27.066	28.623	1.00 30.71	AAAA
ATOM	351	И	VAL		46	21.623	28.588	27.439	1.00 29.73	AAAA
ATOM	352	CA	VAL		46	20.988	27.559	26.622	1.00 27.26	AAAA
ATOM	353	CB	VAL	Α	46	20.002	28.184	25.624	1.00 25.06	AAAA
ATOM	354		VAL		46	19.374	27.122	24.772	1.00 21.59	AAAA
ATOM	355		VAL		46	18.924	28.933	26.386	1.00 22.42	AAAA
ATOM	356	C	VAL		46	22.092	26.791 27.367	25.912 25.529	1.00 27.17 1.00 26.81	AAAA AAAA
ATOM ATOM	357 358	O N	VAL GLN		46 47	23.091 21.915	25.484	25.766	1.00 29.25	AAAA
ATOM	359	CA	GLN		47	22.926	24.632	25.149	1.00 32.15	AAAA
ATOM	360	CB	GLN		47	23.222	23.461	26.074	1.00 30.54	AAAA
ATOM	361	CG	GLN		47	23.642	23.849	27.465	1.00 30.59	AAAA
ATOM	362	CD	GLN		47	25.088	24.256	27.547	1.00 30.61	AAAA
ATOM	363		GLN		47	25.980	23.477	27.245	1.00 30.62	AAAA
ATOM	364		GLN		47	25.328	25.485	27.965		AAAA .
ATOM ATOM	365 366	C	GLN		47 47	22.592	24.084 24.004	23.760 23.360	1.00 34.96 1.00 34.72	AAAA AAAA
ATOM	367	И	GLN ARG		47 48	21.421 23.643	23.691	23.360	1.00 34.72	AAAA
ATOM	368	CA	ARG		48	23.510	23.137	21.692	1.00 39.39	AAAA
ATOM	369	CB	ARG		48	24.795	22.425	21.281	1.00 41.46	AAAA
ATOM	370	CG	ARG	Α	48	25.967	23.348	21.037	1.00 47.64	AAAA

ATOM	371	CD	ARG	A	48	2	7.302	22.677	21.377	1.00 53.31	AAAA
MOTA	372	NE	ARG		48		7.727	22.915	22.763	1.00 58.20	AAAA
ATOM	373	CZ	ARG		48		7.283	22.259	23.836	1.00 59.64	AAAA
ATOM	374		ARG		48		6.382	21.286	23.718	1.00 60.21 1.00 60.15	AAAA AAAA
ATOM	375 376		ARG ARG		48		7.739 2.358	22.591 22.156	25.038 21.618	1.00 80.15	AAAA
ATOM ATOM	376 377	C 0	ARG		48 48		2.299	21.188	22.375	1.00 40.48	AAAA
ATOM	378	Ŋ	ASN		49		1.433	22.431	20.710	1.00 38.54	AAAA
ATOM	379	CA	ASN		49		0.272	21.583	20.483	1.00 36.22	AAAA
ATOM	380	CB	ASN	Α	49		0.729	20.132	20.272	1.00 37.23	AAAA
MOTA	381	CG	ASN	А	49	2	1.688	19.978	19.080	1.00 39.56	AAAA
ATOM	382		ASN		49		1.338	20.267	17.931	1.00 40.26	AAAA
ATOM	383		ASN		49		22.902	19.516	19.358	1.00 40.67 1.00 34.68	AAAA AAAA
ATOM	384 385	С 0	ASN ASN		49 49		.9.166 .8.755	21.638 20.609	21.537 22.049	1.00 34.66	AAAA
ATOM ATOM	386	N	TYR		50		8.668	22.830	21.853	1.00 33.19	AAAA
ATOM	387	CA	TYR		50		7.580	22.935	22.818	1.00 32.37	AAAA
ATOM	388	CB	TYR		50		8.027	23.681	24.070	1.00 31.43	AAAA
ATOM	389	CG	TYR	Α	50	1	18.399	22.787	25.235	1.00 29.72	AAAA
ATOM	390		TYR		50		19.711	22.372	25.422	1.00 29.50	AAAA
MOTA	391	CE1			50		20.069	21.575	26.506	1.00 28.79 1.00 28.50	AAAA AAAA
ATOM	392		TYR		50		L7.442	22.377 21.579	26.164 27.255	1.00 28.50	AAAA
ATOM ATOM	393 394	CEZ	TYR TYR		50 50		L7.792 L9.111	21.184	27.233	1.00 28.18	AAAA
ATOM	395	OH	TYR		50		19.495	20.411	28.493	1.00 27.60	AAAA
ATOM	396	C	TYR		50		16.278	23.561	22.305	1.00 32.94	AAAA
ATOM	397	0	TYR		50		15.318	23.675	23.055	1.00 34.88	AAAA
MOTA	398	N	ASP	Α	51	:	16.226	23.954	21.040	1.00 32.53	AAAA
MOTA	399	CA	ASP		51		15.011	24.545	20.462	1.00 32.61	AAAA
ATOM	400	CB	ASP		51		13.931	23.487	20.156	1.00 32.88	AAAA
MOTA	401	CG OD1	ASP ASP		51 51		12.755 11.700	24.060 23.402	19.326 19.193	1.00 33.49 1.00 33.80	AAAA AAAA
ATOM ATOM	402 403		ASE		51		12.888	25.176	18.793	1.00 31.51	AAAA
ATOM	404	C	ASE		51		14.357	25.623	21.305	1.00 32.34	AAAA
ATOM	405	ō	ASE		51		13.594	25.345	22.231	1.00 31.84	AAAA
ATOM	406	N	LEU	Α	52		14.653	26.857	20.947	1.00 31.82	AAAA
ATOM	407	CA	LEU		52		14.098	28.008	21.611	1.00 33.01	AAAA
ATOM	408	CB	LEU		52		15.223	28.978	21.965	1.00 33.06	AAAA
ATOM	409	CG	LEU		52		16.355 17.602	28.478 29.314	22.861 22.643	1.00 31.38 1.00 31.11	AAAA AAAA
ATOM ATOM	410 411	CD1	LEU LEU		52 52		15.904	28.540	24.296	1.00 31.01	AAAA
ATOM	412	C	LEU		52		13.173	28.633	20.571	1.00 34.37	AAAA
MOTA	413	0	LEU		52		13.261	29.828	20.289	1.00 34.94	AAAA
MOTA	414	N	SEF	R A	53		12.308	27.813	19.976	1.00 35.59	AAAA
MOTA	415	CA	SEF		53		11.377	28.295	18.952	1.00 35.83	AAAA
ATOM	416	CB	SEF		53		10.849	27.137	18.106	1.00 37.01	AAAA
MOTA	417	OG	SEF		53 53		11.860	26.631 29.034	17.248 19.562	1.00 40.40	AAAA AAAA
ATOM ATOM	418 419	C 0		R A	53		9.437	29.666	18.858	1.00 33.53	AAAA
ATOM	420	N		EA	54		10.096	28.938	20.877	1.00 33.41	AAAA
ATOM	421	CA		2 A	54		9.033	29.612	21.587	1.00 34.26	AAAA
ATOM	422	CB		E A	54		8.923	29.040	23.006	1.00 36.80	AAAA
ATOM	423	CG		ΞΑ	54		10.203	29.110	23.802	1.00 37.39	AAAA
ATOM	424		L PHI		54		10.601	30.295		1.00 37.62	AAAA
ATOM	425		PHI L PHI		54 54		11.021 11.796	27.993 30.364	23.920 25.114	1.00 37.64 1.00 38.50	AAAA AAAA
ATOM ATOM	426 427		PHI		54		12.216	28.056		1.00 38.35	AAAA
ATOM	428	CZ.		ΕA	54		12.604	29.244	25.220	1.00 38.39	AAAA
ATOM	429	C		EΑ	54		9.307	31.118		1.00 33.82	AAAA
ATOM	430	0	PH!	EΑ	54		8.402	31.923	21.850	1.00 33.90	AAAA
MOTA	431	N		U A	55		10.563	31.485		1.00 32.49	AAAA
ATOM	432	CA		U A			10.991	32.879		1.00 31.03	AAAA
ATOM	433	CB		UA			12.519	32.973		1.00 27.53	АААА АААА
MOTA	434 435	CG	LE LE	U A A 11			13.252 14.746	32.481 32.595		1.00 23.94 1.00 22.37	AAAA
ATOM ATOM	435		2 PE				12.818	33.297		1.00 22.22	AAAA
MOTA	437			UA			10.484	33.612			AAAA
ATOM	438			UA			10.605	34.835			AAAA
ATOM	439			SA			9.924	32.864		1.00 33.08	AAAA
ATOM	440			S A			9.395				AAAA
ATOM	441			SA			9.062				AAAA
ATOM	442			SA			10.279				AAAA AAAA
ATOM	443 444			SA SA			9.913 11.180				AAAA AAAA
ATOM ATOM	444			SA			10.987				AAAA
	. 10	-,0		- 47	. 50			_0.202			•

ATOM	446	С	LYS	Α	56		8.153	34.310	18.219	1.00 33.2	22 AAAA
ATOM	447	0	LYS	A	56		7.596	34.879	17.284	1.00 33.0	OO AAAA
			THR						19.468	1.00 32.	
ATOM	448	N			57		7.712	34.411			
MOTA	449	CA	THR	Α	57		6.537	35.222	19.750	1.00 32.	
ATOM	450	CB	THR	А	57		5.516	34.477	20.656	1.00 31.0	66 AAAA
	451		THR		57		6.130	34.122	21.895	1.00 31.0	61 AAAA
ATOM											
ATOM	452	CG2	THR	А	57		5.005	33.231	19.976	1.00 30.3	
ATOM	453	С	THR	Α	57		6.867	36.569	20.389	1.00 32.	93 AAAA
ATOM	454	Ō	THR		57		6.091	37.513	20.275	1.00 33.3	17 AAAA-
MOTA	455	N	ILE	A	58		8.020	36.670	21.043	1.00 33.	
ATOM	456	CA	ILE	Α	58		8.407	37.918	21.704	1.00 35.	40 AAAA
ATOM	457	CB	ILE	Δ	58		9.807	37.798	22.374	1.00 34.	47 AAAA
										1.00 33.	
ATOM	458		ILE		58		10.237	39.133	22.956		
ATOM	459	CG1	ILE	А	58		9.777	36.715	23.451	1.00 33.	90 AAAA
ATOM	460	CD1	ILE	Α	58		8.562	36.783	24.338	1.00 33.	41 AAAA
			ILE		58		8.435	39.084	20.731	1.00 36.	
ATOM	461	С									
ATOM	462	0	ILE	A	58		9.338	39.178	19.911	1.00 38.	
ATOM	463	N	GLN	Α	59		7.461	39.980	20.817	1.00 36.	49 AAAA
ATOM	464	CA	GLN	Δ	59		7.438	41.115	19.899	1.00 37.	87 AAAA
ATOM	465	CB	GLN	A	59		6.006	41.500	19.528	1.00 40.	
ATOM	466	CG	GLN	Α	59		5.220	40.444	18.791	1.00 44.	20 AAAA
ATOM	467	CD	GLN	Δ	59		3.980	41.023	18.159	1.00 46.	87 AAAA
										1.00 48.	
ATOM	468	OE1	GLN		59,		4.064	41.902	17.288		
ATOM	469	NE2	GLN	Α	59		2.816	40.549	18.595	1.00 47.	66 AAAA
ATOM	470	C	GLN	Δ	59		8.109	42.345	20.466	1.00 38.	O1 AAAA
ATOM	471	0	GLN	А	59		8.956	42.957	19.815	1.00 37.	
ATOM	472	N	GLU	Α	60		7.712	42.696	21.689	1.00 38.	41 AAAA
ATOM	473	CA	GLU	Δ	60		8.207	43.878	22.383	1.00 37.	44 AAAA
									22.550	1.00 40.	
ATOM	474	CB	GLU		60		7.047	44.865			
ATOM	475	CG	GLU	А	60		7.3 <b>77</b>	46.078	23.399	1.00 45.	56 AAAA
ATOM	476	CD	GLU	Α	60		6.183	46.994	23.646	1.00 47.	49 AAAA
	477		GLU		60		5.462	47.341	22.673	1.00 45.	57 AAAA
ATOM											
ATOM	478	OE2	GLU	Α	60		5.990	47.376	24.825	1.00 48.	
ATOM	479	С	GLU	A	60		8.816	43.557	23.750	1.00 35.	19 AAAA
ATOM	480	0	GLU	Δ	60		8.255	42.784	24.521	1.00 34.	92 AAAA
										1.00 32.	
ATOM	481	N	VAL		61		9.963	44.163	24.035		
ATOM	482	CA	VAL	A	61		10.669	43.988	25.299	1.00 31.	09 AAAA
ATOM	483	CB	VAL	А	61		11.995	43.239	25.091	1.00 30.	27 AAAA
ATOM	484		VAL		61		12.915	43.492	26.256	1.00 29.	34 AAAA
ATOM	485	CG2	VAL	A.	61		11.737	41.744	24.953	1.00 30.	
ATOM	486	С	VAL	Α	61		10.969	45.370	25.881	1.00 32.	AAAA 80
ATOM	487	0	VAL		61		11.808	46.105	25.356	1.00 32.	55 AAAA
										1.00 32.	
ATOM	488	N	ALA	A	62		10.279	45.725	26.963		
ATOM	489	CA	ALA	Α	62		10.453	47.032	27.597	1.00 31.	29 AAAA
ATOM	490	CB	ALA	Α	62		9.108	47.573	28.023	1.00 30.	53 AAAA
							11.370	46.919	28.792	1.00 30.	
ATOM	491	C	ALA		62						
ATOM	492	0	ALA	Α	62		10.917	46.815	29.921	1.00 33.	
ATOM	493	N	GLY	Α	63		12.667	46.949	28.538	1.00 29.	79 AAAA
ATOM	494	CA	GLY		63		13.650	46.816	29.595	1.00 27.	43 AAAA
										1.00 26.	
ATOM	495	С	GLY	А	63		14.866	46.392	28.827		
ATOM	496	0	GLY	Α	63		14.962	46.769	27.670	1.00 27.	
ATOM	497	N	TYR	Ά	64		15.782	45.622	29.403	1.00 25.	00 AAAA
					64		16.937	45.228	28.617	1.00 23.	
ATOM	498	CA	TYR								
ATOM	499	CB	TYR		64		18.249	45.433	29.381	1.00 24.	
ATOM	500	CG	TYR	Α	64		18.465	44.577	30.606	1.00 24.	
ATOM	501	CDI	TYR		64		18.366	43.197	30.551	1.00 24.	46 AAAA
								42.417	31.684	1.00 25.	
ATOM	502		TYR		64		18.594				
ATOM	503	CD2	TYR	Α	64		18.802	45.159	31.823	1.00 24.	
ATOM	504	CE2	TYR	Α	64		19.033	44.397	32.954	1.00 23.	56 AAAA
					64			43.028	32.884	1.00 24.	
ATOM	505	CZ	TYR				18.923				
ATOM	506	OH	TYR		64		19.095	42.272	34.022	1.00 25.	
ATOM	507	С	TYR	Α	64		16.863	43.817	28.091	1.00 22.	14 AAAA
ATOM	508	ō	TYR		64		15.985	43.048	28.457	1.00 23.	
ATOM	509	N	VAL		65		17.788	43.500	27.197	1.00 21.	
ATOM	510	CA	VAL	Α	65		17.890	42.186	26.591	1.00 19.	
ATOM	511	CB	VAL		65		17.488	42.256	25.119	1.00 16.	28 AAAA
										1.00 15.	
ATOM	512		VAL		65		17.076	40.917	24.619		
ATOM	513	CG2	VAL	Α	65		16.366	43.210	24.964	1.00 16.	
ATOM	514	С	VAL		65		19.361	41.751	26.751	1.00 20.	09 AAAA
			VAL		65		20.285	42.451	26.356	1.00 19.	
ATOM	515	0									
ATOM	516	Ν.	LEU		66		19.563	40.593	27.362	1.00 21.	
ATOM	517	CA	PEA	Α	66		20.891	40.070	27.609	1.00 21.	
ATOM	518	СВ	LEU		66		21.111	39.946	29.106	1.00 19.	
ATOM	519	CG	LEU		66	-	22.488	39.512	29.573	1.00 19.	
MOTA	520	CD1	LEU	Α	66	•	23.529	40.501	29.121	1.00 20.	67 AAAA

ATOM	521	CD2	LEU	А	66	22	.479	39.417	31.074	1.00 20.90	AAAA
ATOM	522	С	LEU	Α	66	20	.997	38.708	26.996	1.00 23.81	AAAA
MOTA	523	0	LEU		66		.318	37.804	27.443	1.00 26.39	AAAA
ATOM	524	N	ILE		67		841	38.557	25.978	1.00 25.38	AAAA
ATOM	525	CA	ILE		67		2.043	37.260 37.368	25.307	1.00 25.75	AAAA AAAA
ATOM	526	CB	ILE		67 67		878 L.812	35.985	23.767 23.168	1.00 23.72 1.00 25.36	AAAA
ATOM ATOM	527 528		ILE		67		0.623	38.146	23.401	1.00 20.31	AAAA
ATOM	529		ILE		67		9.377	37.448	23.750	1.00 19.97	AAAA
ATOM	530	C	ILE		67		3.486	36.816	25.565	1.00 26.50	AAAA
ATOM	531	0	ILE	A	67	24	1.339	36.968	24.689	1.00 27.41	AAAA
ATOM	532	N	ALA		68		3.759	36.260	26.745	1.00 26.61	AAAA
MOTA	533	CA	ALA		68		5.116	35.845	27.092	1.00 25.89	AAAA AAAA
ATOM	534	СВ	ALA		68		5.653 5.304	36.775 34.411	28.119 27.577	1.00 25.08 1.00 27.18	AAAA
ATOM ATOM	535 536	С 0	ALA ALA		68 68		4.430	33.834	28.218	1.00 27.10	AAAA
ATOM	537	N	LEU		69		5.470	33.854	27.272	1.00 27.63	AAAA
ATOM	538	CA	LEU		69		5.870	32.498	27.671	1.00 28.95	AAAA
MOTA	539	СВ	LEU		69	26	6.951	32.385	29.202	1.00 27.52	AAAA
ATOM	540	CG	LEU	Α	69	21	B.211	32.992	29.821	1.00 27.34	AAAA
ATOM	. 541		LEU		69		8.229	34.480	29.592	1.00 28.42	AAAA
ATOM	542		LEU		69		8.240	32.733	31.290	1.00 26.80	AAAA
ATOM	543	C	LEU		69		6.074 6.010	31.320 30.269	27.129 27.761	1.00 30.54 1.00 31.97	AAAA AAAA
ATOM ATOM	544 545	O N	LEU ASN		69 70		5.476	31.479	25.955	1.00 31.37	AAAA
ATOM	546	CA	ASN		70		4.718	30.386	25.359	1.00 32.63	AAAA
ATOM	547	СВ	ASN		70		3.464	30.888	24.628	1.00 35.05	AAAA
ATOM	548	CG	ASN	Α	70	2:	2.753	32.013	25.354	1.00 37.76	AAAA
ATOM	549	OD1	ASN	Α	70		1.527	32.103	25.321	1.00 39.18	AAAA
MOTA	550		ASN		70		3.514	32.892	25.981	1.00 39.20	AAAA
ATOM	551	C	ASN		70		5.629	29.716	24.335	1.00 32.01 1.00 30.46	AAAA AAAA
ATOM ATOM	552 553	O N	ASN THR		70 71		6.566 5.351	30.328 28.453	24.041	1.00 30.40	AAAA
ATOM	554	CA	THR		71		6.117	27.700	23.058	1.00 32.97	AAAA
ATOM	555	CB	THR		71		6.976	26.582	23.731	1.00 32.88	AAAA
ATOM	556	OG1	THR	Α	71	2	6.215	25.923	24.750	1.00 31.78	AAAA
ATOM	557		THR		71		8.240	27.171	24.340	1.00 30.54	AAAA
ATOM	558	С	THR		71		5.131	27.097	22.052	1.00 33.38	AAAA
MOTA	559	0	THE		71		5.520	26.414	21.107	1.00 34.13 1.00 33.64	AAAA AAAA
ATOM ATOM	560 561	N CA	VAI VAI		72 72		3.857 2.723	27.423	21.461	1.00 33.04	AAAA
MOTA	562	CB	VAI		72		1.443	27.669	21.966	1.00 33.70	AAAA
ATOM	563		. VAI		72		1.563	29.144	21.772	1.00 32.79	AAAA
MOTA	564	CG2	VAI	A	72	2	0.218	27.115	21.278	1.00 33.36	AAAA
ATOM	565	С	VAI		72		2.791	27.025			
MOTA	566	0	VAI		72		2.313	26.106	19.241	1.00 38.93	AAAA
ATOM	567	N	GLU		73		3.363	28.082	19.350	1.00 36.82 1.00 38.28	AAAA AAAA
ATOM ATOM	568 569	CA CB	GLU GLU		73 73		3.502	28.217 26.856	17.892 17.206	1.00 40.20	AAAA
MOTA	570	CG	GLU		73		4.104	26.979	15.767	1.00 43.88	AAAA
ATOM	571	CD	GLU		73		3.323	26.111	14.812	1.00 45.83	AAAA
ATOM	572		GLU			2	3.582	26.187	13.590	1.00 45.11	AAAA
MOTA	573		GLU		73		2.450	25.356	15.291	1.00 47.64	AAAA
ATOM	574	C		JA			22.436	29.018	17.152	1.00 37.17	AAAA
MOTA	575	0		JA			22.731	29.645	16.136 17.611	1.00 36.81 1.00 36.04	AAAA AAAA
ATOM ATOM	576 577	N CA		3 A 3 A			21.196 20.177	28.977 29.781	16.954	1.00 37.43	AAAA
ATOM	578	CB		3 A			9.523	29.036	15.785	1.00 41.27	AAAA
ATOM	579	CG		3 A			8.540	29.920	14.984	1.00 44.99	AAAA
ATOM	580	CD	AR	ЭΑ	74	1	7.881	29.185	13.813	1.00 48.63	AAAA
MOTA	581	NE	AR	3 A	74		17.091	30.075	12.948	1.00 53.74	AAAA
ATOM	582	CZ		3 A			17.574	30.786	11.923	1.00 55.25	AAAA
ATOM	583		1 AR				L8.863	30.732	11.604	1.00 54.59	AAAA AAAA
ATOM	584 585		2 AR				L6.758	31.551 30.238	11.202 17.919		AAAA
ATOM ATOM	586			G A G A			L9.098 L8.384	29.418	18.501	1.00 37.88	AAAA
ATOM	587	N		ΕA			L8.985	31.552	18.088	1.00 33.95	AAAA
ATOM	588			ΕA			17.979	32.122	18.970		AAAA
ATOM	589			ΕA			18.642	33.021	20.041	1.00 29.72	AAAA
MOTA	590		2 IL				17.663	33.278			AAAA
ATOM	591		1 IL				19.900				AAAA
ATOM	592		1 IL				20.653				AAAA AAAA
ATOM ATOM	593 594			E A E A			16.987 17.171	32.925 34.112			AAAA
ATOM	595			OA			15.924				AAAA

ATOM	596	CD	PRO P	76	15.757	30.822	17.860	1.00 23.69	AAAA
ATOM	597	CA	PRO P		14.834	32.759	16.786	1.00 24.18	AAAA
ATOM	598	СВ	PRO P	76	13.949	31.533	16.629	1.00 23.97	AAAA
ATOM	599	CG	PRO F	. 76	14.918	30.424	16.695	1.00 25.20	AAAA
MOTA	600	С	PRO P	76	14.030	33.973	17.245	1.00 24.42	AAAA
ATOM	601	0	PRO F		12.805	33.912	17.318	1.00 24.47	AAAA
ATOM	602	N	LEU A		14.711	35.074	17.544	1.00 25.42	AAAA
ATOM	603	CA	LEU P		14.046	36.313	17.954	1.00 25.64	AAAA
ATOM	604	CB	LEU F		15.031	37.240	18.687	1.00 23.25	AAAA
ATOM	605	CG	LEU A		15.321	36.875	20.147	1.00 20.92	AAAA
ATOM	606		LEU A		16.466	37.661	20.707	1.00 20.56	AAAA AAAA
ATOM	607		LEU A		14.092	37.149 36.978	20.948	1.00 20.23	AAAA ·
ATOM	608	C	LEU A		13.548 13.666	38.189	16.685 16.525	1.00 27.21	AAAA
ATOM	609	О И	LEU A		12.987	36.150	15.801	1.00 29.82	AAAA
ATOM ATOM	610 611	CA	GLU A		12.458	36.522	14.476	1.00 31.56	AAAA
ATOM	612	CB	GLU A		12.015	35.248	13.735	1.00 34.12	AAAA
ATOM	613	CG	GLU F		13.154	34.315	13.300	1.00 36.94	AAAA
ATOM	614	CD	GLU A		12.647	33.031	12.647	1.00 38.41	AAAA
ATOM	615	OE1			11.427	32.953	12.373	1.00 39.18	AAAA
ATOM	616	OE2			13.464	32.106	12.403	1.00 38.07	AAAA
ATOM	617	C	GLU A		11.328	37.563	14.373	1.00 31.51	AAAA
ATOM	618	Ō	GLU A		11.056	38.082	13.291	1.00 31.01	AAAA
ATOM	619	N	ASN A		10.664	37.868	15.479	1.00 31.85	AAAA
ATOM	620	CA	ASN A	A 79	9.587	38.848	15.446	1.00 30.71	AAAA
ATOM	621	CB	ASN A	A 79	8.258	38.128	15.528	1.00 32.96	AAAA
ATOM	622	CG	ASN A	A 79	7.910	37.463	14.239	1.00 34.38	AAAA
ATOM	623	OD1	ASN A	79	7.444	38.114	13.311	1.00 36.70	AAAA
ATOM	624	ND2	ASN A	A 79	8.160	36.165	14.152	1.00 35.40	AAAA
ATOM	625	С	ASN A		9.656	39.950	16.492	1.00 29.24	AAAA
ATOM	626	0	ASN A		8.651	40.541	16.841	1.00 28.78	AAAA
ATOM	627	N	LEU A		10.862	40.231	16.959	1.00 27.96	AAAA
ATOM	628	CA	LEU A		11.103	41.262	17.947	1.00 27.79	AAAA
ATOM	629	CB	LEU A		12.321	40.866	18.782	1.00 25.97	AAAA
ATOM	630	CG	LEU A		12.742	41.851	19.859	1.00 24.40 1.00 23.83	дада дада
ATOM	631		LEU A		11.635	41.897 41.446	20.873	1.00 23.83	AAAA
ATOM	632		LEU /		14.073 11.366	42.577	17.204	1.00 22.02	AAAA
ATOM ATOM	633 634	C O	LEU A		12.330	42.577	16.451	1.00 27.98	AAAA
ATOM	635	N	GLN A		10.527	43.585	17.429	1.00 30.55	AAAA
ATOM	636	CA	GLN A		10.689	44.865	16.735	1.00 32.18	AAAA
ATOM	637	CB	GLN A		9.367	45.260	16.084	1.00 32.27	AAAA
ATOM	638	CG	GLN A		8.531	44.080	15.677	1.00 32.80	AAAA
ATOM	639	CD	GLN A		7.264	44.493	14.995	1.00 33.64	AAAA
ATOM	640	OE1	GLN A	4 81 <sup>.</sup>	 7.250	44.760		1.00.35.58	AAAA
ATOM	641	NE2	GLN A	A 81	6.184	44.563	15.758	1.00 32.74	AAAA
ATOM	642	С	GLN Z	A 81	11.175	46.035	17.594	1.00 33.08	AAAA
ATOM	643	0	GLN A	A 81	12.093	46.770	17.210	1.00 32.81	AAAA
ATOM	644	N	ILE A		10.556	46.207	18.756	1.00 34.24	. AAAA
ATOM	645	CA	ILE A		10.900	47.309	19.645	1.00 34.92	AAAA
ATOM	646	CB	ILE A		9.646	48.184	19.910	1.00 36.44	AAAA
ATOM	647		ILE A		9.024	47.800	21.241	1.00 35.76	AAAA AAAA
ATOM	648		ILE A		9.998	49.678	19.854	1.00 36.84 1.00 37.63	AAAA
ATOM	649		ILE 2		10.798	50.196 46.832	21.030 20.974	1.00 37.03	AAAA
MOTA	650	C	ILE A		11.459 10.989	45.852	21.541	1.00 34.78	AAAA
ATOM	651	0	ILE I		12.464	47.548	21.458	1.00 34.70	AAAA
ATOM ATOM	652 653	N CA	ILE A		13.118	47.267	22.730	1.00 31.39	AAAA
ATOM	654	CB	ILE A		14.483	46.583	22.492	1.00 30.39	AAAA
ATOM	655		ILE :		15.342	46.609	23.738	1.00 30.26	AAAA
ATOM	656		ILE		14.252	45.148	22.052	1.00 29.08	AAAA
ATOM	657		ILE		15.522	44.412	21.789	1.00 30.68	AAAA
ATOM	658	C	ILE		13.308	48.631	23.393	1.00 31.68	AAAA
ATOM	659	0	ILE .		14.266	49.346	23.103	1.00 31.74	AAAA
ATOM	660	N	ARG		12.377	48.994	24.270	1.00 32.12	AAAA
ATOM	661	CA	ARG .		12.405	50.288	24.959	1.00 32.91	AAAA
ATOM	662	CB	ARG .		11.093	50.484	25.703	1.00 30.84	AAAA
ATOM	663	CG	ARG		9.898	50.289	24.820	1.00 31.61	AAAA
MOTA	664	CD	ARG .	A 84	8.701	49.785	25.596	1.00 32.83	AAAA
ATOM	665	NE	ARG .		7.632	49.374	24.693	1.00 34.40	AAAA
MOTA	666	CZ	ARG .		6.939	50.209	23.922	1.00 35.66	AAAA
ATOM .	667		ARG .		7.193	51.516	23.946	1.00 34.60	AAAA
MOTA	668		ARG .		6.001	49.732	23.109	1.00 35.85	АААА АААА
MOTA	669	С	ARG .		13.565	50.448	25.931	1.00 34.82	AAAA AAAA
ATOM	670	0	ARG .	A 84	14.094	49.475	26.469	1.00 36.39	AAAA

AAAA MOTA 671 N GLY A 85 13.967 51.684 26.166 1.00 35.60 672 CA GLY A 85 15.060 51.905 27.094 1.00 37.14 ATOM AAAA MOTA 673 C GLY A 85 14.867 51.352 28.499 1.00 37.51 29.026 1.00 38.02 29.097 1.00 38.11 MOTA 674 0 GLY A 85 15.759 50.702 AAAA AAAA ATOM 675 N ASN A 86 13.707 51.621 ATOM 676 CA ASN A 86 13.355 51.190 30.456 1.00 39.08 AAAA ATOM 677 CB ASN A 86 12.390 50.004 30.391 1.00 39.85 AAAA 678 ASN A 86 10.950 50.447 30.139 1.00 41.39 AAAA ATOM CG 10.659 51.125 29.153 1.00 41.32 OD1 ASN A 86 AAAA ATOM 679 680 ND2 ASN A 86 10.047 50.073 31.040 1.00 40.05 AAAA ATOM 14.501 50.905 14.926 51.803 31.430 1.00 38.81 32.155 1.00 39.22 AAAA ATOM 681 С ASN A 86 ATOM 682 0 ASN A 86 AAAA MET A 87 15.000 49.676 31.470 1.00 38.50 AAAA ATOM 683 N MOTA 684 CA MET A 87 16.101 49.350 32.377 1.00 38.48 AAAA ATOM 685 CB MET A 87 15.690 48.202 33.297 1.00 39.61 AAAA 34.782 1.00 40.63 MOTA 686 CG MET A 87 15.974 48.417 AAAA 15.668 46.896 35.760 1.00 40.12 ATOM 687 SD MET A 87 AAAA 13.889 46.805 35.657 1.00 40.88 ATOM 688 CE MET A 87 AAAA MET A 87 17.356 48.960 31.585 1.00 38.42 AAAA MOTA 689 С 30.498 1.00 38.31 AAAA 690 O MET A 87 17.265 48.390 MOTA TYR A 88 18.528 49.270 32.124 1.00 37.21 AAAA ATOM 691 N 19.769 31.437 1.00 36.60 AAAA МОТА 692 CA TYR A 88 48.943 31.426 1.00 36.28 MOTA 693 CB TYR A 88 20.734 50.138 AAAA TYR A 88 20.260 51.359 30.665 1.00 34.62 AAAA ATOM 694 CG ATOM 695 CD1 TYR A 88 20.962 52.559 30.743 1.00 32.30 AAAA 30.103 1.00 32.31 29.911 1.00 34.80 ATOM 696 CE1 TYR A 88 20.498 53.709 AAAA 19.082 51.333 AAAA ATOM 697 CD2 TYR A 88 ATOM 698 CE2 TYR A 88 18.611 52.482 29.265 1.00 34.16 AAAA 19.324 53.664 29.373 1.00 31.95 AAAA MOTA 699 CZ TYR A 88 28.791 1.00 28.56 32.112 1.00 36.47 MOTA 700 OH TYR A 88 18.842 54.801 AAAA TYR A 88 20.468 47.790 AAAA 701 C ATOM ATOM 702 O TYR A 88 20.004 47.288 33.126 1.00 37.10 AAAA 21.588 47.382 31.521 1.00 37.14 22.452 46.311 32.023 1.00 37.27 ATOM 703 N TYR A 89 AAAA AAAA MOTA 704 CA TYR A 89 MOTA 705 CB TYR A 89 22.516 45.158 31.032 1.00 34.46 AAAA 44.046 31.466 1.00 31.85 AAAA ATOM CG TYR A 89 706 23.434 23.038 43.137 32.438 1.00 30.43 AAAA MOTA 707 CD1 TYR A 89 23.890 42.131 32.863 1.00 30.51 AAAA ATOM 708 CE1 TYR A 89 ATOM 709 CD2 TYR A 89 24.710 43.920 30.923 1.00 30.63 AAAA 31.341 1.00 29.59 32.313 1.00 30.44 AAAA ATOM 710 CE2 TYR A 89 25.573 42.916 CZ TYR A 89 AAAA MOTA 711 25.157 42.027 26.005 41.035 32.749 1.00 30.49 AAAA MOTA 712 OH TYR A 89 23.834 46.951 32.147 1.00 38.30 24.257 47.699 31.271 1.00 39.23 TYR A 89 23.834 AAAA ATOM 713 C MOTA TYR A 89 AAAA 714 0 GLU A 90 -- 24.549 -46.659 33:219 1:00 39:31 715 N - -- AAAA ATOM: 25.849 47.282 33.413 1.00 41.28 AAAA ATOM 716 CA GLU A 90 46.842 32.338 1.00 42.64 AAAA ATOM 717 CB GLU A 90 26.846 28.292 46.813 32.832 1.00 45.23 AAAA ATOM GLU A 90 718 CG ATOM 719 CD GLU A 90 28.700 48.090 33.567 1.00 47.63 AAAA 28.988 49.112 32.904 1.00 48.55 ATOM AAAA 720 OE1 GLU A 90 28.725 48.079 34.817 1.00 49.12 25.631 48.799 33.345 1.00 41.78 MOTA 721 OE2 GLU A 90 AAAA ATOM 722 С GLU A 90 AAAA 26.440 49.550 32.805 1.00 41.97 AAAA ATOM 723 GLU A 90 0 24.502 49.230 ATOM ASN A 91 33.893 1.00 42.79 AAAA 724 N ATOM 725 CA ASN A 91 24.132 50.638 33.954 1.00 43.13 AAAA AAAA MOTA 726 CB ASN A 91 24.911 51.338 35.085 1.00 42.24 MOTA 51.309 34.873 0.01 42.09 AAAA 727 CG ASN A 91 26.412 OD1 ASN A 91 ND2 ASN A 91 33.905 26.926 0.01 41.87 AAAA ATOM 728 51.869 50.650 35.780 0.01 41.86 ATOM 729 27.125 AAAA ATOM 24.297 51.435 32.666 1.00 42.99 AAAA 730 С ASN A 91 24.582 52.626 32.726 1.00 44.32 AAAA ATOM 731 0 ASN A 91 AAAA MOTA 732 SER A 92 24.100 50.812 31.508 1.00 42.43 N ATOM CA SER A 92 24.255 51.557 30.254 1.00 42.25 AAAA 733 AAAA 52.125 30.172 1.00 42.40 ATOM 734 CB SER A 92 25.677 SER A 92 SER A 92 30.530 1.00 39.37 AAAA ATOM 735 OG 26.646 51.151 50.815 28.948 1.00 42.54 AAAA ATOM 736 C 23.942 AAAA ATOM SER A 92 24.383 27.880 1.00 42.23 737 0 51.247 AAAA TYR A 93 23.171 29.023 1.00 40.92 MOTA 49.727 738 N AAAA MOTA 739 CA TYR A 93 22.839 48.947 27.832 1.00 38.24 AAAA MOTA 740 CB TYR A 93 23.841 47.801 27.684 1.00 36.16 AAAA 48.261 27.565 1.00 35.11 MOTA 741 CG TYR A 93 25.268 CD1 TYR A 93 26.192 1.00 35.09 AAAA ATOM 742 47.980 28.564 AAAA CE1 TYR A 93 27.523 48.400 28.457 1.00 35.76 MOTA 743 25.699 48.979 26.445 1.00 34.95 AAAA ATOM 744 CD2 TYR A 93 27.027 49.407 26.325 1.00 35.53 AAAA MOTA 745 CE2 TYR A 93

ATOM	746	CZ	TYR A	93		27.934	49.112	27.337	1.00 35.78	AAAA
ATOM	747	OH	TYR A	93		29.241	49.526	27.232	1.00 34.90	AAAA
ATOM	748	C	TYR A	93		21.418	48.377	27.763	1.00 37.14	AAAA
ATOM	749	o	TYR A	93		20.928	47.791	28.728	1.00 38.33	AAAA
ATOM	750	И	ALA A	94		20.769	48.537	26.608	1.00 35.58	AAAA
								26.381	1.00 33.66	AAAA
ATOM	751	CA	ALA A	94		19.411	48.013			
ATOM	752	CB	ALA A	94		18.623	48.956	25.469	1.00 32.41	AAAA
ATOM	753	С	ALA A	94		19.504	46.622	25.744	1.00 31.83	AAAA
MOTA	754	0	ALA A	94		18.567	45.834	25.773	1.00 31.41	AAAA
ATOM	755	N	LEU A	95		20.657	46.342	25.161	1.00 29.75	AAAA
ATOM	756	CA	LEU A	95		20.911	45.074	24.531	1.00 27.85	AAAA
ATOM	757	CB	LEU A	95		20.545	45.126	23.050	1.00 25.92	AAAA
ATOM	758	ÇG	LEU A	95		20.711	43.789	22.319	1.00 25.61	AAAA
ATOM	759		LEU A	95		19.491	42.913	22.558	1.00 25.08	AAAA
										AAAA
ATOM	760		LEU A	95		20.901	44.033	20.839	1.00 25.24	
ATOM	761	С	LEU A	95		22.399	44.775	24.690	1.00 28.58	AAAA
ATOM	762	0	LEU A	95		23.259	45.544	24.256	1.00 27.58	AAAA
ATOM	763	N	ALA A	96		22.689	43.654	25.331	1.00 27.85	AAAA
ATOM	764	CA	ALA A	. 96		24.047	43.225	25.545	1.00 28.01	AAAA
ATOM	765	CB	ALA A	96		24.382	43.321	26.998	1.00 28.68	AAAA
ATOM	766	С	ALA A	96		24.081	41.787	25.095	1.00 29.54	AAAA
ATOM	767	ō	ALA A	96		23.260	40.986	25.530	1.00 30.65	AAAA
ATOM	768	N	VAL A	97		25.017	41.460	24.214	1.00 30.69	AAAA
	769		VAL A	97			40.102	23.700	1.00 31.69	AAAA
ATOM		CA				25.149				
ATOM	770	CB	VAL A	97		24.672	40.040	22.253	1.00 30.69	AAAA
ATOM	771		VAL A	97		24.861	38.641	21.701	1.00 32.42	AAAA
ATOM	772	CG2	VAL A	97		23.215	40.460	22.185	1.00 29.15	AAAA
ATOM	773	С	VAL A	97		26.607	39.672	23.772	1.00 33.35	AAAA
ATOM	774	0	VAL A	97		27.391	40.008	22.892	1.00 34.41	AAAA
ATOM	775	N	LEU A	98		26.970	38.912	24.803	1.00 35.33	AAAA
ATOM	776	CA	LEU A	98		28.366	38.507	24.970	1.00 37.05	AAAA
ATOM	777	CB	LEU A	98		29.067	39.530	25.850	1.00 36.35	AAAA
										AAAA
ATOM	778	CG	LEU A	98		28.399	39.649	27.214	1.00 36.44	
MOTA	779		LEU A	98		29.343	40.340	28.150	1.00 39.31	AAAA
ATOM	780	CD2	LEU A	98		27.099	40.395	27.110	1.00 34.27	AAAA
ATOM	781	С	LEU A	98		28.656	37.111	25.532	1.00 37.15	AAAA
ATOM	782	0	LEU A	98		27.812	36.497	26.164	1.00 37.68	· AAAA
ATOM	783	N	SER A	99		29.882	36.647	25.297	1.00 37.89	AAAA
ATOM	784	CA	SER A	99		30.381	35.347	25.752	1.00 39.28	AAAA
ATOM	785	СВ	SER A	99		30.566	35.345	27.270	1.00 39.69	AAAA
ATOM	786	OG	SER A	99		31.755	36.015	27.640	1.00 41.78	AAAA
			SER A	99		29.581	34.111	25.368	1.00 39.72	AAAA
ATOM	787	C							1.00 39.72	AAAA
ATOM	788	0	SER A	99		29.252	33.297	26.231		
ATOM	789	И	ASN A			29.299	33.942	24.082	1.00 39.73	AAAA
MOTA	790	CA	ASN A			28.533	32.788	23.641	1.00 40.30	AAAA
ATOM	791	CB	ASN A			27.406	33.241	22.722	1.00 38.71	AAAA
ATOM	792	CG	ASN A	100		26.452	34.171	23.409	1.00 38.04	AAAA •
ATOM	793	OD1	ASN A	100	٠	25.653	33.749	24.238	1.00 38.80	AAAA
ATOM	794	ND2	ASN A	100		26.538	35.454	23.085	1.00 37.28	AAAA
ATOM	795	С	ASN A			29.364	31.727	22:932	1.00 42.18	. AAAA
ATOM	796	o	ASN A			29.448	31.722	21.706	1.00 41.45	AAAA
	797							23.703	1.00 44.15	AAAA
ATOM		N	TYR A			29.975	30.831			AAAA
ATOM	798	CA	TYR A			30.758	29.754	23.122	1.00 46.78	
ATOM	799	CB	TYR A			31.777	30.315	22.144	1.00 45.43	AAAA
ATOM	800	CG	TYR A	101		32.922	31.045	22.776	1.00 45.60	AAAA
ATOM	801	CD1	TYR A	101		34.153	30.418	22.950	1.00 44.05	<b>AAA</b> A
ATOM	802	CE1	TYR A	101		35.236	31.104	23.461	1.00 44.75	AAAA
ATOM	803	CD2	TYR A	101		32.801	32.384	23.146	1.00 45.05	AAAA
ATOM	804		TYR A		-	33.882	33.082	23.662	1.00 44.69	AAAA
ATOM	805	CZ	TYR A			35.098	32.438	23.812	1.00 45.02	AAAA
							33.129	24.281	1.00 46.14	· AAAA
ATOM	806	ОН	TYR A			36.191				
ATOM	807	С	TYR A			31.442	28.844	24.130	1.00 49.76	AAAA
MOTA	808	0	TYR A			32.094	29.300	25.065	1.00 50.57	AAAA
ATOM	809	И	ASP A			31.278	27.543	23.903	1.00 53.43	AAAA
MOTA	810	CA	ASP A	102		31.812	26.455	24.731	1.00 55.07	AAAA
MOTA	811	CB	ASP A	102		31.319	25.128	24.136	1.00 57.28	AAAA
MOTA	812	CG	ASP A			31.684	23.926	24.976	1.00 60.32	AAAA
ATOM	813		ASP A			31.497		24.490	1.00 60.66	AAAA
ATOM	814		ASP A			32.150	24.119	26.119	1.00 62.13	AAAA
									1.00 55.45	AAAA
ATOM	815	C	ASP A			33.342	26.438	24.835		AAAA
MOTA	816	0	ASP A			33.975	25.450	24.455	1.00 55.96	
MOTA	817	N	ALA A			33.937	27.511	25.357	1.00 55.49	AAAA
MOTA	818	CA	ALA A			35.397	27.590	25.480	1.00 55.53	AAAA
MOTA	819	CB	ALA A	103		35.885	26.683	26.604	1.00 55.63	AAAA
MOTA	820	C	ALA A	103		36.033	27.168	24.160	1.00 55.47	AAAA

36.454 26.025 23.997 1.00 53.87 36.092 28.108 23.224 1.00 57.03 AAAA ATOM 821 0 ALA A 103 AAAA MOTA 822 N ASN A 104 36.644 27.871 21.892 1.00 58.71 MOTA AAAA 823 CA ASN A 104 38.180 27.935 21.914 1.00 61.29 AAAA MOTA 824 CB **ASN A 104** 38.704 29.366 21.998 1.00 64.22 AAAA MOTA 825 CG ASN A 104 OD1 ASN A 104 ATOM 826 38.367 30.213 21.164 1.00 65.07 AAAA 39.532 29.641 23.006 1.00 65.35 36.190 26.542 21.313 1.00 57.81 ND2 ASN A 104 AAAA ATOM 827 ATOM 828 С ASN A 104 AAAA ATOM ASN A 104 36.834 25.514 21.527 1.00 59.57 AAAA 829 0 35.078 26.573 20.583 1.00 55.91 AAAA ATOM 830 N LYS A 105 34.518 25.380 19.956 1.00 54.19 AAAA ATOM 831 CA LYS A 105 34.362 24.249 20.976 1.00 54.32 AAAA ATOM 832 CB LYS A 105 33.866 22.938 20.385 0.01 54.09 AAAA MOTA 833 CG LYS A 105 33.719 21.865 21.455 0.01 54.03 AAAA ATOM 834 CD LYS A 105 MOTA 835 CE LYS A 105 35.052 21.542 22.113 0.01 53.94 AAAA 34.911 20.497 23.164 0.01 54.04 836 NZ LYS A 105 AAAA ATOM MOTA 837 C LYS A 105 33.157 25.695 19.372 1.00 53.14 AAAA ATOM 838 0 LYS A 105 33.041 26.131 18.227 1.00 53.20 AAAA 25.469 20.180 1.00 51.70 MOTA 839 N THR A 106 32.129 AAAA MOTA 840 CA THR A 106 30.753 25.706 19.775 1.00 50.34 AAAA 29.835 24.546 20.220 1.00 51.16 MOTA 841 CB THR A 106 AAAA 30.260 24.052 21.501 1.00 51.81 29.865 23.425 19.199 1.00 50.99 OG1 THR A 106 AAAA MOTA 842 AAAA ATOM 843 CG2 THR A 106 844 C THR A 106 30.224 26.995 20.375 1.00 49.20 AAAA ATOM 845 O 30.828 27.540 21.295 1.00 49.47 29.094 27.468 19.851 1.00 47.30 28.492 28.693 20.344 1.00 44.60 AAAA THR A 106 MOTA ATOM GLY A 107 AAAA 847 CA GLY A 107 AAAA ATOM 27.376 29.234 19.472 1.00 42.43 26.945 28.581 18.533 1.00 42.85 26.902 30.433 19.796 1.00 40.49 AAAA MOTA 848 C GLY A 107 ATOM 849 0 GLY A 107 AAAA ATOM 850 N LEU A 108 AAAA ATOM 851 CA LEU A 108 25.832 31.077 19.043 1.00 37.67 AAAA 25.394 32.367 19.732 1.00 36.76 24.414 33.227 18.936 1.00 34.90 23.123 32.464 18.711 1.00 36.26 MOTA 852 CB LEU A 108 AAAA ATOM 853 CG LEU A 108 AAAA CD1 LEU A 108 AAAA MOTA 854 MOTA 855 CD2 LEU A 108 24.136 34.506 19.685 1.00 35.04 AAAA 26.317 856 C 31.406 17.645 1.00 36.67 AAAA LEU A 108 ATOM MOTA 857 LEU A 108 27.351 32.052 17.482 1.00 35.35 AAAA 0 25.554 30.968 16.646 1.00 35.68 LYS A 109 AAAA ATOM 858 N 25.894 31.194 15.241 1.00 34.01 25.906 29.858 14.489 1.00 33.16 26.106 29.984 12.987 0.01 32.65 25.894 AAAA ATOM 859 CA LYS A 109 CB LYS A 109 AAAA MOTA 860 CG LYS A 109 AAAA ATOM 861 AAAA MOTA CD LYS A 109 25.961 28.636 12.298 0.01 32.15 862 26.085 28.771 10.790 0.01 31.80 25.062 29.696 10.230 0.01 31.82 ATOM 863 CE LYS A 109 AAAA AAAA ATOM 864 NZ LYS A 109 24.971 32.174 14.509 1.00 32.32 AAAA ATOM 865 C LYS A 109 LYS A 109 25.442 33.020 13.764 1.00 31.48 AAAA MOTA 866 0 GLU A 110 23.665 32.063 14.727 1.00 31.17 AAAA ATOM 867 N 22.706 32.930 14.053 1.00 30.16 CA GLU A 110 AAAA ATOM 868 ATOM 869 CB GLU A 110 21.964 32.120 12.966 1.00 29.58 AAAA 870 CG GLU A 110 21.738 30.637 13.310 1.00 28.34 871 CD GLU A 110 21.633 29.717 12.088 1.00 29.05 872 OE1 GLU A 110 22.625 29.630 11.326 1.00 27.77 873 OE2 GLU A 110 20.570 29.067 11.893 1.00 27.06 874 C GLU A 110 21.728 33.615 15.008 1.00 29.15 875 O GLU A 110 21.133 32.974 15.866 1.00 28.91 CG GLU A 110 AAAA ATOM MOTA AAAA MOTA AAAA AAAA ATOM AAAA MOTA AAAA MOTA 875 O GLU A 110 21.133 32.974 15.866 1.00 28.91 876 N LEU A 111 21.577 34.930 14.844 1.00 29.37 877 CA LEU A 111 20.700 35.760 15.685 1.00 29.37 878 CB LEU A 111 21.593 36.736 16.465 1.00 28.95 879 CG LEU A 111 21.203 37.350 17.815 1.00 29.26 880 CD1 LEU A 111 20.664 36.292 18.751 1.00 28.31 881 CD2 LEU A 111 22.424 38.032 18.426 1.00 27.87 882 C LEU A 111 19.682 36.515 14.799 1.00 29.14 ATOM AAAA ATOM AAAA AAAA ATOM AAAA MOTA AAAA ATOM AAAA MOTA AAAA MOTA 19.685 37.727 14.733 1.00 29.76 18.774 35.784 14.141 1.00 29.32 18.521 34.410 14.602 1.00 30.38 MOTA 883 0 LEU A 111 AAAA 884 N MOTA PRO A 112 AAAA MOTA 885 CD PRO A 112 17.708 36.208 13.223 1.00 29.44 ATOM 886 CA PRO A 112 16.864 34.945 13.059 1.00 29.55 AAAA MOTA 887 PRO A 112 CB 17.770 33.835 13.460 1.00 30.58 16.812 37.382 13.608 1.00 30.66 ATOM 888 CG PRO A 112 AAAA ATOM 889 C PRO A 112 AAAA 15.613 37.332 13.340 1.00 31.52 AAAA MOTA 890 O PRO A 112 AAAA 17.355 38.433 14.206 1.00 31.27 MOTA 891 N MET A 113 MET A 113 16.521 39.569 14.623 1.00 32.48 AAAA MOTA 892 CA 17.237 40.363 15.716 1.00 34.12 ATOM 893 CB MET A 113 CG MET A 113 16.814 39.990 17.133 1.00 34.12 AAAA MOTA 894 895 SD MET A 113 18.142 40.231 18.302 1.00 34.37 AAAA ATOM

ATOM	896	CE	MET	Α	113		18.540	38.605	18.527	1.00 31.86	AAAA
ATOM	897	С	MET	A	113		16.122	40.508	13.496	1.00 32.25	AAAA
ATOM	898	0	MET	Α	113		16.273	41.725	13.604	1.00 32.96	AAAA
MOTA	899	N	ARG	Α	114		15.584	39.936	12.429	1.00 30.75	AAAA
ATOM	900	CA	ARG				15.187	40.699	11.258	1.00 29.68	AAAA
ATOM	901	CB	ARG				14.975	39.761	10.075	1.00 29.99	AAAA
ATOM	902	CG	ARG				13.609	39.120	10.002	1.00 26.27	AAAA
ATOM	903	CD	ARG				13.308	38.244	11.189	1.00 25.95	AAAA
ATOM	904	NE	ARG				12.371	37.210	10.788	1.00 27.20	AAAA AAAA
ATOM	905	CZ	ARG				12.675	36.213	9.959	1.00 28.14 1.00 26.67	AAAA
ATOM	906		ARG				13.904	36.111	9.455 9.603	1.00 25.33	AAAA
MOTA	907 908	NH2 C	ARG ARG				11.736 13.964	35.346 41.590	11.397	1.00 29.51	AAAA
ATOM ATOM	909	0	ARG				13.412	42.032	10.391	1.00 29.74	AAAA
ATOM	910	N	ASN				13.526	41.850	12.621	1.00 28.25	AAAA
ATOM	911	CA	ASN				12.382	42.735	12.815	1.00 28.00	AAAA
ATOM	912	CB	ASN				11.153	41.935	13.198	1.00 25.20	AAAA
ATOM	913	CG	ASN				10.370	41.502	12.007	1.00 24.22	AAAA
ATOM	914	OD1	ASN	Α	115		9.768	40.434	11.998	1.00 25.29	AAAA
MOTA	915	ND2	ASN	Α	115		10.361	42.334	10.984	1.00 24.89	AAAA
ATOM	916	С	ASN	А	115		12.677	43.801	13.861	1.00 29.87	AAAA
ATOM	917	0	asn				11.947	44.780	14.006	1.00 30.09	AAAA
ATOM	918	N	LEU				13.764	43.597	14.585	1.00 31.01	AAAA
ATOM	919	CA	LEU				14.181	44.537	15.596	1.00 32.63	AAAA
ATOM	920	CB	LEU				15.425	44.003	16.296	1.00 31.13	AAAA
MOTA	921	CG	LEU				15.995	44.889	17.383	1.00 28.76	AAAA
ATOM	922	CD1					14.988	44.969	18.504	1.00 27.83	AAAA
ATOM	923		LEU				17.319	44.325	17.860	1.00 29.92 1.00 34.82	AAAA AAAA
ATOM	924	C	LEU				14.503	45.810 45.863	14.830 14.089	1.00 34.82	AAAA
ATOM	925	N O	GLN				15.484 13.689	46.842	14.009	1.00 36.10	AAAA
ATOM ATOM	926 927	CA			117		13.944	48.064	14.252	1.00 37.88	AAAA
ATOM	928	CB	GLN				12.828	48.274	13.234	1.00 37.50	AAAA
ATOM	929	CG	GLN			•	12.829	47.184	12.196	1.00 40.04	AAAA
ATOM	930	CD	GLN				11.779	47.377	11.148	1.00 42.95	AAAA
ATOM	931	OE1					11.586	48.484	10.646	1.00 45.75	. AAAA
ATOM	932	NE2	GLN				11.092	46.296	10.792	1.00 43.71	AAAA
ATOM	933	С	GLN	Α	117		14.154	49.321	15.070	1.00 38.45	AAAA
MOTA	934	0	GLN	Α	117		14.638	50.320	14.547	1.00 39.48	AAAA
MOTA	935	N	GLU	Α	118		13.823	49.265	16.353	1.00 38.74	AAAA
MOTA	936	CA			118		13.971	50.427	17.210	1.00 38.23	AAAA
ATOM	937	CB			118		12.683	51.251	17.164	1.00 38.15	AAAA
ATOM	938	CG			118		12.649	52.448	18.097	1.00 39.43	AAAA
ATOM	939	CD			118		13.610	53.542	17.682	1.00 41.05	AAAA AAAA
MOTA	940		GLU				13.502	54.009	16.529 18.505	1.00 42.73 1.00 39.66	AAAA
ATOM	941	OE2 C			118		14.464 14.308	53.937 50.082	18.660	1.00 38.25	AAAA
ATOM ATOM	942 943	Ö			118		13.678	49.212	19.278	1.00 38.68	AAAA
ATOM	944	N			119		15.320	50.768	19.181	1.00 36.89	AAAA
ATOM	945	CA			119		15.764	50.628	20.563	1.00 35.34	AAAA
ATOM	946	СВ			119		17.229	50.153	20.661	1.00 36.18	AAAA
ATOM	947		ILE				17.670	50.107	22.111	1.00 35.24	. AAAA
ATOM	948	CG1	ILE	Α	119		17.374	48.767	20.034	1.00 37.14	. AAAA
ATOM	949	CD1	ILE	Α	119		18.776	48.187	20.146	1.00 36.91	AAAA
ATOM	950	C	ILE	Α	119		15.669	52.052	21.101	1.00 34.22	AAAA
ATOM	951	0			119		16.617	52.831	21.005	1.00 32.90	AAAA
ATOM	952	N			120		14.506	52.388	21.646	1.00 33.33	AAAA
ATOM	953	CA			120		14.255	53.716	22.178	1.00 33.63	AAAA
ATOM	954	CB			120		12.908	53.713	22.919	1.00 31.58 1.00 30.79	AAAA AAAA
ATOM	955	CG			120		11.713	53.218	22.058	1.00 30.79	AAAA
ATOM	956		LEU				10.426 11.513	53.174 54.118	22.855 20.871	1.00 29.83	AAAA
MOTA	957		LEU		120		15.407	54.229	23.055	1.00 35.35	AAAA
ATOM ATOM	958 9 <b>5</b> 9	0			120		16.473	54.581	22.540	1.00 35.42	AAAA
ATOM	960	N			121		15.216	54.277	24.366	1.00 37.12	AAAA
ATOM	961	CA			121		16.282	54.756	25.251	1.00 38.24	AAAA
ATOM	962	CB			121		15.686	55.154	26.623	1.00 39.82	AAAA
ATOM	963	CG			121		14.407	55.942	26.541	1.00 41.46	AAAA
ATOM	964				121		14.131	57.233	26.846	1.00 43.26	AAAA
ATOM	965				121		13.224	55.404	26.077	1.00 42.51	AAAA
ATOM	966		HIS				12.279	56.329	26.096	1.00 42.63	AAAA
ATOM	967	NE2	HIS	A	121		12.802	57.449	26.557	1.00 42.96	· AAAA
MOTA	968	C			121		17.295	53.607	25.422	1.00 38.60	AAAA
MOTA	969	0			121		16.918	52.452	25.257	1.00 39.83	AAAA
MOTA	970	N	GLY	A	122		18.567	53.908	25.713	1.00 38.05	AAAA

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ATOM	971	CA	GLY A	122	19.564	52.852	25.937		36.52	AAAA
MOTA	972	C	GLY A	122	20.525	52.413	24.831		35.69	AAAA
ATOM	973	0	GLY A	122	20.175	52.400	23.657		35.02	AAAA
ATOM	974	N	ALA A	123	21.741	52.018	25.206		35.54	AAAA
MOTA	975	CA	ALA A	123	22.745	51.593	24.220		35.46	AAAA
ATOM	976	CB	ALA A	123	24.096	52.193	24.570		35.63	AAAA
ATOM	977	С	ALA A	123	22.891	50.075	24.048		35.18	AAAA
ATOM	978	0	ALA A	123	22.214	49.302	24.717		34.77	AAAA
ATOM	979	N	VAL A	124	23.786	49.661	23.147		34.53	AAAA
MOTA	980	CA	VAL A	124	24.026	48.241	22.877		33.64	AAAA
ATOM	981	CB	VAL A	124	23.438	47.845	21.500		33.47	AAAA
MOTA	982		VAL A		23.556	46.353	21.289		34.26	AAAA
MOTA	983	CG2	VAL A		21.981	48.266	21.417		32.39	AAAA
MOTA	984	С	VAL A		25.523	47.878	22.922		33.14	AAAA
ATOM	985	0	VAL A		26.380	48.699	22.612		32.68	AAAA
MOTA	986	N	ARG A		25.827	46.642	23.315		32.99	AAAA
MOTA	987	CA	ARG A		27.214	46.174	23.419		32.12	AAAA
MOTA	988	CB	ARG A		27.705	46.338	24.858		30.91	AAAA
ATOM	989	CG	ARG A		29.027	45.679	25.174		30.31	AAAA
ATOM	990	CD	ARG A		29.440	45.966	26.613		30.90	AAAA AAAA
ATOM	991	NE	ARG A		30.263	44.903	27.186		33.10	AAAA
MOTA	992	CZ	ARG A		31.495	44.596	26.789		34.73 37.47	AAAA
ATOM	993		ARG A		32.070	45.276	25.808			AAAA
ATOM	994		ARG A		32.153	43.598	27.368		34.41	AAAA
ATOM	995	C	ARG A		27.394	44.718	22.995		32.55 32.66	AAAA
MOTA	996	0	ARG A		26.550	43.867	23.276		33.29	AAAA
ATOM	997	N	PHE A		28.500	44.446	22.311		33.81	AAAA
ATOM	998	CA	PHE A		28.838	43.097 42.969	21.856		34.48	AAAA
ATOM	999	CB	PHE A		28.693		20.325 19.857		34.46	AAAA
MOTA	1000	CG	PHE A		27.313 26.272	42.558 43.482	19.797		34.51	AAAA
MOTA	1001		PHE A		27.057	41.242	19.478		34.48	AAAA
MOTA	1002		PHE A		24.999	43.102	19.366		33.90	AAAA
MOTA	1003		PHE A		25.788	40.855	19.048		34.28	AAAA
MOTA	1004	CZ	PHE A		24.758	41.789	18.992		33.85	AAAA
ATOM ATOM	1005	C	PHE A		30.290	42.786	22.232		34.31	AAAA
ATOM	1007	Ö	PHE A		31.115	43.695	22.353		35.00	AAAA
ATOM	1008	N	SER A		30.590	41.503	22.422		34.46	AAAA
ATOM	1000	CA	SER A		31.946	41.042	22.742		34.03	AAAA
ATOM	1010	CB	SER A		32.572	41.880	23.866		35.24	AAAA
ATOM	1011	OG	SER A		31.866	41.741	25.080		39.63	AAAA
ATOM	1012	C	SER A		32.005	39.558	23.108	1.00	31.55	AAAA
ATOM	1013	ō	SER A		31.211	39.068	23.906	1.00	29.87	AAAA
ATOM	1014	N	ASN A		32.962	38.864	22.500	1.00	30.22	AAAA
ATOM	1015	CA	ASN A		33.195	37.438	22.689	1.00	30.10	AAAA
ATOM	1016	CB	ASN A	128	33.532	37.139	24.153	1.00	31.19	AAAA
ATOM	1017	CG	ASN A	128	34.819	37.827	24.617	1.00	32.24	AAAA
ATOM	1018	OD1	ASN A	128	34.783	38.733	25.454		34.03	AAAA
ATOM	1019	ND2	ASN A	128	35.957	37.398	24.075		31.76	AAAA
ATOM	1020	C	ASN A	128	32.055	36.537	22.198		30.09	AAAA
MOTA	1021	0	ASN A		31.381	35.859	22.971		28.96	AAAA
MOTA	1022	N	ASN A		31.860		20.885		30.76	AAAA
MOTA	1023	CA	ASN A		30.857		20.203		30.82	AAAA
ATOM	1024	CB	ASN A		29.670		19.766		30.29	AAAA
MOTA	1025	CG	ASN A		29.047		20.905		30.62	AAAA AAAA
ATOM	1026		ASN A		28.534		21.847		29.57	AAAA
ATOM	1027		ASN A		29.086		20.826			AAAA
ATOM	1028	С		A 129	31.582				31.45	AAAA
MOTA	1029	0		A 129	31.215				31.25	AAAA
MOTA	1030	N		A 130	32.624				30.90	AAAA
ATOM	1031	CD		A 130	33.289				32.41	AAAA
ATOM	1032	CA		A 130	33.376				32.41	AAAA
ATOM	1033			A 130	34.607				0 31.82	AAAA
ATOM	1034	CG		A 130	34.706				0 33.71	AAAA
ATOM	1035			A 130	32.634 33.219				0 35.01	AAAA
ATOM	1036 1037			A 130 A 131	33.219				0 33.82	AAAA
ATOM ATOM	1037			A 131 A 131	30.585				0 34.58	AAAA
ATOM	1039			A 131 A 131	30.143				0 35.10	AAAA
ATOM	1040			A 131	29.377				0 35.70	AAAA
ATOM	1040			A 131	28.723				0 35.03	AAAA
ATOM	1041			A 132	29.095				0 36.27	AAAA
ATOM	1043			A 132	27.965				0 36.85	AAAA
ATOM	1044			A 132	27.874			1.0	0 33.38	AAAA
MOTA	1045			A 132	26.587			1.0	0 33.30	AAAA

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ATOM	1046	CD1	LEU A	132	25.393	36.041	16.562	1.00 32.65	AAAA
ATOM	1047		LEU A		26.607	38.097	17.241	1.00 33.69	AAAA
ATOM	1048	С	LEU A		28.165	35.222	14.127	1.00 39.24	AAAA
ATOM	1049	0	LEU A		29.201	35.772	13.766	1.00 41.29	AAAA
ATOM	1050	N	CYS A		27.188	34.892	13.282	1.00 41.16	AAAA
ATOM	1051	CA	CYS A	133	27.264	35.191	11.848	1.00 41.90	AAAA
ATOM	1052	С	CYS A	133	26.405	36.369	11.421	1.00 41.88	<b>AA</b> AA
ATOM	1053	ō	CYS A		25.311	36.582	11.941	1.00 41.43	AAAA
ATOM	1054	CB	CYS A		26.815	34.002	10.999	1.00 42.67	AAAA
ATOM	1055	SG	CYS A		28.000	32.654	10.741	1.00 47.30	AAAA
ATOM	1056	N	ASN A		26.918	37.118	10.454	1.00 42.64	AAAA
ATOM	1057	CA	ASN A		26.204	38.242	9.874	1.00 44.09	AAAA
ATOM	1058	СВ	ASN A		25.002	37.724	9.077	1.00 44.56	AAAA
ATOM	1059	CG	ASN A		25.404	37.075	7.770	1.00 45.17	AAAA
ATOM	1060		ASN A		25.495	35.852	7.674	1.00 44.80	AAAA
ATOM	1061		ASN A		25.661	37.900	6.754	1.00 44.86	AAAA
ATOM	1062	С	ASN A		25.718	39.373	10.764	1.00 44.64	AAAA
ATOM	1063	Ō	ASN A		24.926	40.195	10.306	1.00 44.22	AAAA
ATOM	1064	N	VAL A		26.155	39.439	12.017	1.00 45.70	AAAA
ATOM	1065	CA	VAL A		25.674	40.524	12.870	1.00 45.89	AAAA
ATOM	1066	СВ	VAL A		25.519	40.068	14.343	1.00 46.97	AAAA
ATOM	1067		VAL A		25.587	41.260	15.292	1.00 48.48	AAAA
ATOM	1068		VAL A		24.164	39.384	14.508	1.00 46.88	AAAA
ATOM	1069	С	VAL A	135	26.581	41.732	12.745	1.00 44.55	AAAA
ATOM	1070	0	VAL A		26.204	42.847	13.081	1.00 44.11	AAAA
ATOM	1071	N	GLU A		27.772	41.496	12.225	1.00 43.51	AAAA
ATOM	1072	CA	GLU A		28.733	42.557	11.996	1.00 43.67	AAAA
ATOM	1073	CB	GLU A		30.140	41.963	11.975	1.00 45.50	AAAA
ATOM	1074	CG	GLU A		30.186	40.546	11.410	1.00 47.80	AAAA
ATOM	1075	CD	GLU A	136	29.509	40.422	10.049	1.00 49.63	AAAA
ATOM	1076	OE1	GLU A	136	30.186	40.632	9.018	1.00 48.59	AAAA
ATOM	1077	OE2	GLU A	136	28.292	40.125	10.014	1.00 50.58	AAAA
ATOM	1078	С	GLU A	136	28.410	43.191	10.639	1.00 42.78	AAAA
ATOM	1079	0	GLU A	136	29.254	43.247	9.754	1.00 44.13	AAAA
MOTA	1080	N	SER A	137	27.186	43.668	10.465	1.00 41.95	AAAA
ATOM	1081	CA	SER A	137	26.812	44.260	9.191	1.00 41.46	AAAA
ATOM	1082	CB	SER A	137	26.464	43.161	8.199	1.00 41.19	AAAA
ATOM	1083	OG	SER A	137	25.206	42.596	8.522	1.00 40.22	AAAA
ATOM	1084	С	SER A	137	25.611	45.178	9.341	1.00 41.40	AAAA
ATOM	1085	0	SER A	137	25.389	46.076	8.528	1.00 40.95	AAAA
ATOM	1086	N	ILE A	138	24.824	44.933	10.377	1.00 40.68	AAAA
ATOM	1087	CA	ILE A	138	23.652	45.738	10.625	1.00 40.30	AAAA
ATOM	1088	CB	ILE A	138	22.897	45.223	11.859	1.00 40.33	AAAA
ATOM	1089	CG2	ILE A	138	21.850	46.234	12.314	1.00 41.04	AAAA
ATOM	1090	CG1	ILE A	138	22.275	43.871	11.541	1.00 38.98	AAAA
ATOM	1091	CD1	ILE A	138	23.291	42.781	11.428	1.00 39.86	AAAA
ATOM	1092	C	ILE A		24.038	47.194	10.851	1.00 40.77	AAAA
ATOM	1093	0	ILE A		24.973	47.486	11.597	1.00 39.73	AAAA
MOTA	1094	N	GLN A		23.323	48.095	10.175	1.00 41.55	AAAA
MOTA	1095	CA	GLN A		23.528	49.537	10.316	1.00 40.92	AAAA
ATOM	1096	CB	GLN A		22.915	50.297	9.132	1.00 40.20	AAAA
ATOM	1097	CG	GLN A		23.745	50.270	7.844	1.00 40.56	AAAA
ATOM	1098	CD	GLN A		25.097	50.938	8.007	0.01 40.38	AAAA
ATOM	1099		GLN A		25.182	52.124	8.326	0.01 40.37	AAAA
ATOM	1100		GLN A		26.163	50.177	7.787	0.01 40.37	AAAA AAAA
MOTA	1101	С	GLN A		22.784	49.889	11.596	1.00 40.86	
MOTA	1102	0	GLN A		21.560	49.933	11.610	1.00 40.96	AAAA AAAA
ATOM	1103	N	TRP A		23.523	50.118	12.674	1.00 40.75	AAAA
MOTA	1104	CA	TRP A		22.897	50.418	13.950	1.00 40.84	
ATOM	1105	CB	TRP A		23.870	50.111	15.103	1.00 40.81	AAAA
ATOM	1106	CG	TRP A		24.227	48.624	15.257	1.00 40.56	AAAA AAAA
ATOM	1107		TRP A		23.429	47.610	15.874	1.00 39.33	AAAA
ATOM	1108		TRP A		24.122	46.389	15.742	1.00 37.02	AAAA
MOTA	1109		TRP A		22.192	47.616	16.526 14.792	1.00 40.37 1.00 40.67	AAAA
MOTA	1110		TRP A		25.345	47.988		1.00 40.67	AAAA
ATOM	1111		TRP A		25.288	46.646	15.079	1.00 37.63	AAAA
ATOM	1112		TRP A		23.624	45.193	16.230	1.00 38.31	AAAA
ATOM	1113		TRP A		21.695	46.420	17.015	1.00 41.10	AAAA
ATOM	1114		TRP A		22.411	45.225 51.847	16.864	1.00 40.34	AAAA
MOTA	1115	C	TRP A		22.357	52.155	14.064 15.008	1.00 41.98	AAAA
MOTA	1116	O N	TRP A		21.629 22.692	52.711	13.106	1.00 41.98	AAAA
ATOM	1117 1118	N CA	ARG A		22.692	54.089	13.106	1.00 42.36	AAAA
ATOM	1118	CB	ARG A		22.204	54.937	12.086	1.00 42.40	AAAA
ATOM ATOM	1120	CG	ARG A		24.409	55.095	12.283	1.00 44.35	AAAA
ALON	-120	-00	1410 A	. <u></u>	24.403	23.000			•

MOTA	1121	CD	ARG .	A	141	25.003	55.897	11.126		52.40	AAAA
ATOM	1122		ARG .			24.427	55.476	9.844		55.80	AAAA
ATOM	1123		ARG .			24.974	55.704	8.652 8.560		56.52 57.80	AAAA AAAA
ATOM ATOM	1124 1125		ARG .			26.128 24.368	56.356 55.276	7.549		56.43	AAAA
ATOM	1126	C	ARG			20.712	54.126	12.827		42.37	AAAA
MOTA	1127	0	ARG	A	141	20.029	55.098	13.142	1.00	41.87	AAAA
ATOM	1128	N	ASP	A	142	20.212	53.062	12.209		42.16	AAAA
ATOM	1129	CA	ASP			18.805	52.964	11.854		42.72	AAAA
ATOM	1130	CB	ASP			18.640	52.058	10.626		43.43 44.06	дада дада
ATOM ATOM	1131 1132	CG OD1	ASP ASP			17.208 16.926	52.022 52.697	10.094 9.080		43.03	AAAA
ATOM	1133		ASP			16.366	51.314	10.687		44.12	AAAA
ATOM	1134	C	ASP			17.997	52.412	13.025	1.00	43.71	AAAA
ATOM	1135	0	ASP	A	142	16.768	52.440	13.003		43.64	AAAA
ATOM	1136	N	ILE			18.681	51.907	14.048		44.70	AAAA
ATOM	1137	CA	ILE			17.977	51.362	15.205		46.13 46.01	AAAA AAAA
ATOM ATOM	1138 1139	CB	ILE			18.335 17.669	49.866 49.386	15.458 16.749		45.83	AAAA
ATOM	1140		ILE			17.831	49.001	14.298		45.74	AAAA
ATOM	1141		ILE			18.088	47.508	14.463		44.80	AAAA
ATOM	1142	С	ILE	A	143	18.165	52.140	16.512	1.00	46.77	AAAA
ATOM	1143	0	ILE			17.177	52.521	17.138		46.85	AAAA
ATOM	1144	И	VAL			19.408	52.381	16.928		47.51 49.06	AAAA AAAA
ATOM	1145 1146	CA CB	VAL VAL			19.641 20.991	53.105 52.711	18.181 18.826		49.06	AAAA
ATOM ATOM	1147		VAL			21.082	51.217	18.941		48.72	AAAA
ATOM	1148		VAL			22.137	53.230	18.017		48.22	AAAA
ATOM	1149	С	VAL			19.581	54.624	18.026	1.00	50.45	AAAA
MOTA	1150	0	VAL			20.184	55.195	17.115		50.50	AAAA
ATOM	1151	N			145	18.844	55.272	18.924		51.55	AAAA AAAA
ATOM ATOM	1152 1153	CA CB			145 145	18.691 17.690	56.718 57.180	18.881 19.931		53.05 53.22	AAAA
ATOM	1154	OG			145	16.374	56.850	19.529		56.10	AAAA
ATOM	1155	C			145	19.990	57.478	19.054		54.16	AAAA
ATOM	1156	0	SER	Α	145	20.860	57.095	19.836		54.29	AAAA
MOTA	1157	N			146	20.095	58.567	18.305		55.41	AAAA
ATOM	1158	CA			146	21.262	59.432	18.303 17.853		56.46	АААА АААА
MOTA MOTA	1159 1160	CB OG			146 146	20.831 19.602	60.817 61.157	18.467		57.63	AAAA
ATOM	1161	C			146	21.994	59.531	19.633		57.73	AAAA
ATOM	1162	0			146	23.199	59.284	19.711	1.00	57.49	AAAA
MOTA	1163	И			147	21.245	59.882	20.673		58.99	AAAA
MOTA	1164	CA			147	21.764	60.075	22.023		60.48	АААА АААА
ATOM ATOM	1165 1166	CB CG			147 *	20.589 19.334	60.183 60.703	22.993 22.320		63.24	AAAA
ATOM	1167		ASP			19.454	61.612	21.474		67.52	AAAA
MOTA	1168		ASP			18.228	60.210	22.636		67.59	AAAA
ATOM	1169	С			147	22.781		22.582		60.49	AAAA
ATOM	1170	0			147	23.960		22.745		59.76 60.96	AAAA AAAA
ATOM ATOM	1171 1172	N CA			148	22.324 23.192				60.60	AAAA
ATOM	1173	CB			148	22.342				60.67	AAAA
ATOM	1174	CG			148	21.029		24.667	1.00	61.46	AAAA
ATOM	1175	CD1	PHE	A	148	19.908				61.50	AAAA
ATOM	1176		PHE			20.922				62.22	AAAA
MOTA	1177		PHE			18.697				62.32	AAAA AAAA
ATOM ATOM	1178 1 <b>17</b> 9	CE2	PHE		148	19.711 18.595				62.70	AAAA
ATOM	1180	C			148	24.133				59.99	AAAA
ATOM	1181	0			148	24.928		22.824	1.00	60.39	AAAA
MOTA	1182	N			149	24.042				59.44	AAAA
ATOM	1183	CA			149	24.863				58.87	AAAA AAAA
ATOM ATOM	1184 1185	CB CG			149 149	24.728 25.271				58.30 58.25	AAAA
ATOM	1185				149	24.541				57.15	AAAA
ATOM	1187				149	25.096				59.29	AAAA
MOTA	1188		LEU	I	149	26.351	55.974	20.460		0 58.49	AAAA
ATOM	1189				149	26.888				0 58.46	AAAA
ATOM	1190				150	27.009				0 57.81	AAAA AAAA
MOTA	1191 1192				A 150 A 150	28.435 28.952				0 56.86 0 56.42	AAAA
MOTA MOTA	1192				A 150	28.269				0 55.16	AAAA
ATOM	1194				1 150	28.799				0 56.77	AAAA
MOTA	1195				150	29.981		22.772	1.0	0 56.40	AAAA
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ATOM	1196	N	ASN A	A 151	27.794	55.616	23.134	1.00 56.59	AAAA
ATOM	1197	CA		A 151	28.032	54.793	24.317	1.00 56.28	AAAA
ATOM	1198	CB		A 151	26.924	55.009	25.357	1.00 59.47	AAAA
MOTA	1199	CG		A 151	27.145	56.251	26.196	1.00 62.41	AAAA
ATOM	1200			A 151	26.576	57.311	25.936	1.00 63.05	AAAA
ATOM	1201			A 151 A 151	28.004	56.124	27.199	1.00 66.19	AAAA
ATOM	1202	C		A 151	28.141	53.309	23.989	1.00 54.29	AAAA
ATOM	1203	0		A 151	28.465	52.497	24.849	1.00 54.19	AAAA
ATOM	1204	N	MET 2	A 152	27.886	52.968	22.734	1.00 51.92	AAAA
ATOM	1205	CA	MET A	A 152	27.958	51.592	22.280	1.00 50.27	AAAA
ATOM	1206	CB	MET A	A 152	27.516	51.511	20.826	1.00 50.89	AAAA
ATOM	1207	CG	MET Z	A 152	26.132	52.052	20.579	1.00 51.62	AAAA
ATOM	1208	SD	MET 2	A 152 ·	25.432	51.283	19.128	1.00 52.87	AAAA
ATOM	1209	CE		A 152	26.719	51.638	17.928	1.00 52.21	AAAA
ATOM	1210	C		A 152	29.332	50.944	22.411	1.00 49.22	AAAA
ATOM	1211	0		A 152	30.358	51.624	22.422	1.00 48.41	AAAA
ATOM	1212			A 153				1.00 48.12	AAAA
		N			29.336	49.616	22.514		
ATOM	1213	CA		A 153	30.571	48.845	22.620	1.00 47.30	AAAA
ATOM	1214	CB		A 153	30.816	48.379	24.050	1.00 46.46	AAAA
ATOM	1215	OG		A 153	32.019	47.628	24.116	1.00 45.87	AAAA
ATOM	1216	С		A 153	30.509	47.626	21.706	1.00 47.08	AAAA
MOTA	1217	0	SER A	A 153	30.287	46.498	22.160	1.00 46.38	AAAA
ATOM	1218	N	MET 2	A 154	30.714	47.872	20.415	1.00 45.75	AAAA °
MOTA	1219	CA	MET 2	A 154	30.682	46.827	19.412	1.00 44.43	AAAA
ATOM	1220	СВ		A 154	30.173	47.397	18.099	1.00 41.33	AAAA
ATOM	1221	CG		A 154	28.953	48.249	18.272	1.00 39.32	AAAA
ATOM	1222	SD		A 154	27.643	47.328	19.030	1.00 37.81	AAAA
ATOM	1223	CE		A 154	26.360	47.588	17.876	1.00 37.01	AAAA
ATOM									AAAA
	1224	C		A 154	32.070	46.240	19.202	1.00 45.59	
MOTA	1225	0		A 154	33.078	46.948	19.244	1.00 46.60	AAAA
ATOM	1226	N		A 155	32.113	44.934	18.990	1.00 45.52	AAAA
MOTA	1227	CA		A 155	33.358	44.233	18.749	1.00 45.29	AAAA
ATOM	1228	CB	ASP A	A 155	34.195	44.112	20.008	1.00 44.77	AAAA
ATOM	1229	CG	ASP I	A 155	35.120	42.913	19.957	1.00 43.99	AAAA
ATOM	1230	OD1	ASP Z	A 155	35.864	42.782	18.963	1.00 43.72	AAAA
ATOM	1231	OD2	ASP 2	A 155	35.099	42.093	20.896	1.00 44.07	AAAA
ATOM	1232	С		A 155	33.040	42.844	18.274	1.00 46.03	AAAA
ATOM	1233	Ö		A 155	32.350	42.096	18.959	1.00 47.07	AAAA
ATOM	1234	N		A 156	33.560	42.494	17.107	1.00 45.97	AAAA
ATOM	1235	CA		A 156	33.315	41.183	16.557	1.00 45.74	AAAA
ATOM	1236	CB		A 156	32.333	41.277	15.394	1.00 46.17	AAAA
ATOM	1237	CG		A 156	31.140	42.129	15.670	1.00 44.77	AAAA
ATOM	1238			A 156	31.272	43.498	15.828	1.00 45.24	AAAA
ATOM	1239			A 156	29.877	41.568	15.728	1.00 46.14	AAAA
ATOM	1240	CE1	PHE 2	A <sup>.</sup> 156	30.161	44.300	16.033	1.00 46.85	AAAA
ATOM	1241	CE2	PHE 2	A 156	28.754	42.359	15.933	1.00 48.39	AAAA
ATOM	1242	CZ	PHE 2	A 156	28.896	43.732	16.086	1.00 47.98	AAAA
ATOM	1243	С	PHE 2	A 156	34.595	40.521	16.076	1.00 45.75	AAAA
ATOM	1244	0	PHE A	A 156	35.617	41.167	15.863	1.00 46.18	AAAA
ATOM	1245	N		A 157	34.504	39.212	15.905	1.00 45.98	AAAA
ATOM	1246	CA		A 157	35.589		15.448	1.00 46.60	AAAA
ATOM	1247	СВ		A 157	36.664	38.210	16.540	1.00 46.14	AAAA
ATOM	1248	CG		A 157	37.301	39.503	17.056	1.00 44.23	AAAA
						39.257		0.01 44.64	AAAA
ATOM	1249	CD		A 157 A 157	38.316		18.156 17.954	0.01 44.84	AAAA
ATOM	1250				39.315	38.567			
ATOM	1251			A 157	38.064	39.825	19.331	0.01 44.46	AAAA
ATOM	1252	С		A 157	34.849	37.045	15.274	1.00 47.54	AAAA
ATOM	1253	0		A 157	33.899	36.783	15.998	1.00 47.69	AAAA
ATOM	1254	И		A 158	35.241	36.224	14.314	1.00 49.06	AAAA
ATOM	1255	CA	ASN I	A 158	34.563	34.948	14.143	1.00 51.89	AAAA
ATOM	1256	CB	ASN I	A 158	33.361	35.072	13.206	1.00 51.40	AAAA
ATOM	1257	CG	ASN Z	A 158	32.700	33.738	12.924	0.01 51.55	AAAA
ATOM	1258	OD1	ASN A	A 158	32.238	33.057	13.838	0.01 51.56	AAAA
ATOM	1259			A 158	32.653	33.356	11.653	0.01 51.57	AAAA
ATOM	1260	C		A 158	35.551	33.960	13.586	1.00 54.14	AAAA
ATOM	1261	Ö		A 158	36.409	34.325	12.786	1.00 54.42	AAAA
								1.00 54.42	AAAA
MOTA	1262	N		A 159	35.435	32.712	14.030		AAAA
ATOM	1263			A 159	36.322	31.645	13.591	1.00 58.49	
ATOM	1264	CB		A 159	37.509	31.530	14.550	1.00 58.07	AAAA
MOTA	1265	CG		A 159	38.440	32.699	14.481	0.01 58.80	AAAA
MOTA	1266			A 159	38.758	33.646	15.395	0.01 58.87	AAAA
MOTA	1267	ND1	HIS	A 159	39.132	33.026	13.334	0.01 58.83	AAAA
MOTA	1268	CE1	HIS	A 159	39.833	34.125	13.543	1.00 58.99	AAAA
MOTA	1269	NE2	HIS :	A 159	39.623	34.523	14.786	1.00 59.59	AAAA
ATOM	1270	C		A 159	35.578	30.322		1.00 59.77	AAAA
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ATOM	1271	0	HIS .			36.078	29.281	13.911	1.00 60.67	AAAA
ATOM	1272	N	LEU .			34.372	30.379	12.925	1.00 60.50	AAAA AAAA
ATOM ATOM	1273 1274	CA CB	LEU .			33.538 32.094	29.195 29.489	12.728 13.146	1.00 60.49 1.00 60.18	AAAA
ATOM	1275	CG	LEU .			31.123	28.305	13.129	0.01 60.16	AAAA
ATOM	1276		LEU			31.613	27.230	14.087	0.01 60.07	AAAA
MOTA	1277		LEU .			29.731	28.773	13.523	0.01 60.07	AAAA
ATOM	1278	C	LEU .			33.586	28.816	11.242	1.00 60.97	AAAA
ATOM ATOM	1279 1280	О И	LEU			33.198 34.073	27.707 29.752	10.848 10.427	1.00 60.92 1.00 60.46	АААА АААА
ATOM	1281	CA	GLY			34.178	29.524	8.998	1.00 58.69	AAAA
ATOM	1282	C	GLY			32.899	28.950	8.438	1.00 57.50	AAAA
MOTA	1283	0	GLY			32.927	27.988	7.670	1.00 57.96	AAAA
ATOM	1284	N	SER			31.775	29.544	8.826	1.00 55.82 1.00 53.90	AAAA AAAA
ATOM ATOM	1285 1286	CA CB	SER SER			30.474 29.815	29.078 28.194	8.368 9.420	1.00 54.80	AAAA
ATOM	1287	OG	SER			28.951	28.969	10.243	1.00 55.74	AAAA
ATOM	1288	C	SER	A	162	29.541	30.235	8.102	1.00 52.16	AAAA
MOTA	1289	0	SER			28.325	30.046	8.076	1.00 52.13	AAAA
ATOM ATOM	1290 1291	N CA	CYS			30.089 29.240	31.431 32.587	7.918 7.669	1.00 50.11 1.00 47.89	AAAA AAAA
ATOM	1291	C	CYS			29.163	32.969	6.200	1.00 47.30	AAAA
ATOM	1293	0	CYS			30.170	33.274	5.560	1.00 46.66	AAAA
MOTA	1294	CB	CYS			29.712	33.792	8.482	1.00 47.12	AAAA
ATOM	1295	SG	CYS			29.757	33.564	10.288	1.00 46.86	AAAA
ATOM ATOM	1296 1297	N CA	GLN GLN			27.953 27.769	32.949 33.319	5.662 4.275	1.00 47.06 1.00 47.49	AAAA AAAA
ATOM	1298	CB	GLN			26.734	32.412	3.613	1.00 47.34	AAAA
ATOM	1299	CG	GLN			25.564	32.071	4.487	1.00 47.15	AAAA
MOTA	1300	CD	GLN			24.694	30.995	3.870	1.00 47.25	AAAA
ATOM	1301		GLN			23.911	31.258	2.958	1.00 46.92	AAAA
ATOM ATOM	1302 1303	NE2 C	GLN		164 164	24.839 27.365	29.768 34.781	4.360 4.145	1.00 48.15 1.00 46.66	AAAA AAAA
ATOM	1303	Ö			164	27.193	35.489	5.141	1.00 46.28	AAAA
ATOM	1305	N			165	27.241	35.232	2.905	1.00 45.43	AAAA
MOTA	1306	CA			165	26.879	36.607	2.639	1.00 43.87	AAAA
MOTA	1307	CB			165	27.515	37.062	1.321	1.00 44.86	AAAA AAAA
ATOM ATOM	1308 1309	CG			165 165	29.035 29.604	37.023 37.507	1.324 0.001	0.01 44.06 0.01 43.80	AAAA
ATOM	1310	CE			165	31.124	37.473	0.010	0.01 43.59	AAAA
ATOM	1311	NZ	LYS	A	165	31.699	37.949	-1.279	0.01 43.16	AAAA
ATOM	1312	C			165	25.366	36.697	2.571	1.00 42.44	AAAA
ATOM ATOM	1313 1314	O N			. 165 . 166	24.676 24.860	35.673 37.924	2.531 2.576	1.00 42.23 1.00 39.44	AAAA AAAA
ATOM	1315	CA			166	23.430	38.184	2.518	1.00 37.27	AAAA
ATOM	1316	С			166	23.022	38.173	1.024	1.00 35.93	AAAA
ATOM	1317	0			166	23.862	38.485	0.177	1.00 34.55	AAAA
ATOM	1318 1319	CB			166	23.154 23.882	39.572 40.161	3.118 4.722	1.00 39.87 1.00 40.82	АААА АААА
MOTA MOTA	1319	N	CYS ASP		167	21.771	37.819	0.682	1.00 34.48	AAAA
ATOM	1321	CA			167	21.343	37.818			AAAA
MOTA	1322	CB			167	19.804	37.557	-0.914		AAAA
ATOM	1323	CG			167	19.413	36.918	-2.310	1.00 20.74	AAAA AAAA
ATOM ATOM	1324 1325		ASP ASP			20.293	36.387 36.917	-3.006 -2.720	1.00 21.79 1.00 6.51	AAAA
ATOM	1326	C			167	21.720	39.246		1.00 34.55	AAAA
ATOM	1327	0	ASP	A	167	21.606	40.167	-0.325		AAAA
ATOM	1328	И			168	22.220	39.453		1.00 36.39	AAAA
ATOM	1329	CD CA			168 168	22.853 22.561	38.547 40.849	-3.328 -2.627	1.00 36.09 1.00 37.72	AAAA AAAA
ATOM ATOM	1330 1331	CB			168	23.257	40.765			AAAA
ATOM	1332	CG			168	23.960	39.420			AAAA
MOTA	1333	С	PRO	P	168	21.406	41.850			AAAA
MOTA	1334	0			168	21.628	43.056			AAAA
ATOM ATOM	1335 1336	N CA			A 169 A 169	20.178 19.043	41.370 42.284		_	дада дада
ATOM	1337	CB			1 169	17.734	42.204			AAAA
ATOM	1338	OG			1 169	17.632	41.020			AAAA
ATOM	1339	C	SER	Į	A 169	19.030	43.022	_		AAAA
ATOM	1340	0			A 169	18.089	43.759			AAAA
ATOM	1341	N			A 170	20.090	42.824			AAAA AAAA
ATOM ATOM	1342 1343	CA C			A 170 A 170	20.232 21.013	43.445 44.763			AAAA
ATOM	1344	ō			4 170	22.035	44.839		1.00 40.66	AAAA
ATOM	1345	CB			A 170	20.967	42.494			AAAA

ATOM	1346	SG	CYS	А	170	20.099	40.980	2.481.	1.00 37.44	AAAA
ATOM	1347	N			171		45.812	1.714	1.00 41.58	AAAA
ATOM	1348	CD	PRO	Α	171	19.235	45.791	2.395	1.00 41.74	AAAA
ATOM	1349	CA	PRO	Α	171	21.144	47.160	1.796	1.00 41.58	AAAA
ATOM	1350	CB	PRO	Α	171	20.231	47.889	2.770	1.00 40.94	AAAA
ATOM	1351	CG	PRO	A	171	18.901	47.265	2.485	1.00 42.75	AAAA
ATOM	1352	С	PRO	Α	171	22.576	47.094	2.306	1.00 41.09	AAAA
ATOM	1353	0	PRO	A	171	22.832	46.526	3.355	1.00 40.69	AAAA
MOTA	1354	N	asn			23.501	47.687	1.565	1.00 42.04	AAAA
ATOM	1355	CA	ASN			24.924	47.645	1.903	1.00 43.69	AAAA
MOTA	1356	CB	ASN			25.296	48.738	2.901	1.00 42.72	AAAA
ATOM	1357	CG	ASN			26.797	48.943	3.001	1.00 42.16	AAAA
ATOM	1358		ASN			27.270	49.764	3.786	0.01 42.06	AAAA
MOTA	1359		ASN			27.553	48.197	2.203	0.01 42.04	AAAA
ATOM	1360	С			172	25.273	46.274	2.483	1.00 45.50	AAAA
MOTA	1361	0			172	26.265	46.112	3.201	1.00 45.46	AAAA
ATOM	1362	N			173	24.447	45.286	2.147	1.00 46.36	AAAA
ATOM	1363	CA			173	24.659	43.940	2.634	1.00 47.36	AAAA AAAA
MOTA	1364	С			173	24.566	43.928	4.139	1.00 47.78	AAAA
ATOM	1365	0			173	25.573	43.678	4.804	1.00 48.35 1.00 47.21	AAAA
ATOM -	1366	N			174	23.366	44.204	4.663	1.00 47.21	AAAA
ATOM	1367	CA			174	23.119	44.238	6.107 6.433	1.00 46.67	AAAA
ATOM	1368	CB			174	22.092 22.683	45.322 46.612	6.375	1.00 46.52	AAAA
ATOM	1369	OG			174	22.656	42.890	6.662	1.00 44.43	AAAA
ATOM	1370	C			174	23.454	42.830	7.212	1.00 44.32	· · AAAA
ATOM	1371	0			174	21.366	42.131	6.544	1.00 41.87	AAAA
ATOM	1372 1373	N CA			175 175	20.816	41.328	6.992	1.00 39.77	AAAA
ATOM ATOM	1374	C			175	21.271	40.722	8.315	1.00 38.41	AAAA
ATOM	1375	0			175	22.445	40.757	8.657	1.00 36.77	AAAA
ATOM	1376	СВ			175	21.078	40.289	5.933	1.00 39.04	AAAA
ATOM	1377	SG			175	22.634	39.352	6.113	1.00 38.65	AAAA
ATOM	1378	N			176	20.327	40.113	9.029	1.00 38.82	AAAA
ATOM	1379	CA			176	20.625	39.460	10.302	1.00 39.58	AAAA
ATOM	1380	СВ			176	19.441	39.554	11.274	1.00 39.87	AAAA
ATOM	1381	CG			176	19.087	40.933	11.666	1.00 40.60	AAAA
ATOM	1382		TRP			19.601	41.663	12.785	1.00 42.09	AAAA
ATOM	1383		TRP			19.041	42.951	12.732	1.00 42.67	AAAA
ATOM	1384	CE3	TRP	Α	176	20.484	41.353	13.827	1.00 42.84	AAAA
ATOM	1385	CD1	TRP	Α	176	18.259	41.777	11.005	1.00 40.45	AAAA
MOTA	1386	NE1	TRP	Α	176	18.224	42.993	11.633	1.00 42.18	AAAA
MOTA	1387	CZ2	TRP	Α	176	19.336	43.939	13.684	1.00 43.58	AAAA
ATOM	1388	CZ3	TRP	Α	176	20.780	42.335	14.773	1.00 42.51	AAAA
MOTA	1389	CH2			176	20.207	43.611	14.693	1.00 42.94	AAAA
MOTA	1390	C	TRP	Α	176	20.969	37.984	10.092	1.00 39.42	AAAA
ATOM	1391	0			176	20.887	37.184	11.022	1.00 39.86	AAAA
ATOM	1392	N			177	21.353	37.630	8.871	1.00 38.90	AAAA
MOTA	1393	CA			177	21.711	36.254	8.582	1.00 39.23	AAAA
ATOM	1394	С			177	21.485		7.133		AAAA
MOTA	1395	0			177	20.940	36.644	6.354	1.00 40.29	AAAA
ATOM	1396	N			178	21.904	34.664	6.764	1.00 39.19	AAAA AAAA
ATOM	1397	CA			178	21.725	34.201	5.399	1.00 38.43 1.00 37.85	AAAA
ATOM	1398	CB			178	22.358 20.234	32.843	5.227 5.087	1.00 37.83	AAAA
ATOM	1399	C			178	19.457	34.134 33.578	5.854	1.00 37.03	AAAA
ATOM	1400	0			178 179	19.437	34.712	3.960	1.00 37.03	AAAA
ATOM	1401	N CA			179	18.438	34.703	3.584	1.00 39.11	AAAA
ATOM .	1402 1403	C			179	18.004	36.028	2.993	1.00 39.66	AAAA
ATOM ATOM	1403	0			179	18.578	37.078	3.291	1.00 39.25	AAAA
ATOM	1405	N			180	16.996	35.978	2.133	1.00 39.94	AAAA
ATOM	1406	CA			180	16.477	37.185	1.502	1.00 40.80	AAAA
ATOM	1407	CB			180	16.118	36.919	0.036	1.00 40.53	AAAA
ATOM	1408	CG			180	15.070	35.833	-0.163	0.01 40.69	AAAA
ATOM	1409	CD			180	15.563	34.459	0.248	0.01 40.66	AAAA
ATOM	1410				180	16.558	33.983	-0.337	0.01 40.61	AAAA
ATOM	1411				180	14.955	33.856	1.157	0.01 40.62	AAAA
ATOM	1412	C			180	15.238	37.606	2.286	1.00 40.95	AAAA
ATOM	1413	Ō			180	14.369	38.339	1.786	1.00 40.56	AAAA
ATOM	1414	N			181	15.172	37.105	3.519	1.00 39.88	AAAA
ATOM	1415	CA	GLU	A	181	14.084	37.402	4.438	1.00 37.97	AAAA
MOTA	1416	CB	GLU	J A	181	13.366	36.120	4.862	1.00 38.57	AAAA
MOTA	1417	CG	GLU	JA	181	12.216	36.333	5.836	0.01 38.20	· AAAA
MOTA	1418	CD			181	11.146	37.257	5.287	0.01 38.16	AAAA
MOTA	1419				181	10.560	36.933	4.233	0.01 37.87	AAAA
MOTA	1420	OE 2	GLU	J A	181	10.891	38.308	5.911	0.01 37.87	AAAA

ATOM	1421	С	GLU A	181	14.730	38.039	5.640	1.00 36.76	AAAA
ATOM	1422	0	GLU A	181	14.045	38.553	6.516	1.00 36.71	AAAA
ATOM	1423	N	ASN A		16.062	38.005	5.659	1.00 36.46	AAAA
MOTA	1424	CA	asn a		16.846	38.566	6.756	1.00 36.59	AAAA
MOTA	1425	CB	ASN A	182	18.029	37.675	7.084	1.00 35.91	AAAA
MOTA	1426	CG	ASN A	182	17.613	36.417	7.759	1.00 37.28	AAAA
ATOM	1427		ASN A		16.948		8.795	1.00 36.76	AAAA
						36.446			
ATOM	1428		asn a		17.992	35.288	7.178	1.00 37.83	AAAA
ATOM	1429	С	ASN A	182	17.371	39.959	6.543	1.00 36.43	AAAA
ATOM	1430	0	ASN A	182	17.737	40.624	7.501	1.00 37.13	AAAA
ATOM	1431	N	CYS A		17.430			1.00 37.15	
						40.396	5.291		AAAA
ATOM	1432	CA	CYS A		17.927	41.726	4.978	1.00 36.13	AAAA
MOTA	1433	С	CYS A	183	17.440	42.727	6.030	1.00 35.84	AAAA
ATOM	1434	0	CYS A	183	16.305	42.646	6.509	1.00 35.43	AAAA
ATOM	1435	CB	CYS A		17.452	42.158	3.589	1.00 36.56	AAAA
ATOM	1436	SG	CYS A		18.115	41.278	2.129	1.00 36.85	AAAA
MOTA	1437	N	GLN A	184	18.311	43.658	6.399	1.00 34.98	AAAA
ATOM	1438	CA	GLN A	184	17.976	44.662	7.396	1.00 34.78	AAAA
ATOM	1439	CB	GLN A	184	19.253	45.309	7.938	1.00 32.09	AAAA
ATOM	1440	CG	GLN A		19.046	46.679	8.571	1.00 29.36	AAAA
MOTA	1441	CD	GLN A		20.276	47.187	9.293	1.00 29.83	AAAA
ATOM	1442	OE1	GLN A	184	21.392	47.060	8.793	1.00 28.08	AAAA
MOTA	1443	NE2	GLN A	184	20.076	47.780	10.473	1.00 25.32	AAAA
MOTA	1444	С	GLN A		17.057	45.751	6.869	1.00 36.28	AAAA
ATOM	1445	0	GLN A		17.535	46.732	6.314	1.00 38.36	AAAA
ATOM	1446	N	LYS A	185	15.747	45.585	7.042	1.00 36.66	AAAA
ATOM	1447	CA	LYS A	185	14.786	46.600	6.602	1.00 37.51	AAAA
ATOM	1448	CB	LYS A	185	13.403	46.322	7.193	1.00 37.74	AAAA
MOTA	1449	CG	LYS A		12.894	44.907	7.050	1.00 37.22	AAAA
ATOM	1450	CD	LYS A		11.561	44.754	7.778	1.00 37.75	AAAA
ATOM	1451	CE	LYS A	185	11.057	43.306	7.762	1.00 38.08	AAAA
MOTA	1452	NZ	LYS A	185	11.994	42.307	8.363	1.00 35.25	AAAA
ATOM	1453	С	LYS A	185	15.275	47.948	7.144	1.00 38.14	AAAA
MOTA	1454	ō	LYS A		16.045	47.979	8.099	1.00 38.83	AAAA
MOTA	1455	N	LEU A		14.842	49.062	6.559	1.00 38.84	AAAA
MOTA	1456	CA	LEU A	. 186	15.287	50.351	7.074	1.00 39.71	AAAA
ATOM	1457	CB	LEU A	186	16.409	50.917	6.201	1.00 38.05	AAAA
ATOM	1458	CG	LEU A	186	17.737	50.148	6.313	1.00 38.34	AAAA
MOTA	1459	CD1	LEU A	186	18.777	50.742	5.386	1.00 37.13	AAAA
ATOM	1460		LEU A		18.238	50.184	7.744	1.00 37.12	AAAA
ATOM	1461	C	LEU A		14.169		7.253	1.00 41.45	
						51.372			AAAA
MOTA	1462	0	LEU A		13.165	51.346	6.538	1.00 41.35	AAAA
ATOM	1463	N	THR A	. 187	14.342	52.256	8.237	1.00 43.16	AAAA
MOTA	1464	CA	THR A	187	13.350	53.287	8.539	1.00 44.60	AAAA
ATOM	1465	CB	THR -A	~187	12.227	52.731	9.438	1:00 45.06	AAAA
ATOM	1466	OG1			12.806	52.158	10.616	1.00 45.12	AAAA
ATOM	1467	CG2					8.702	1.00 44.75	AAAA
					11.419	51.665			
ATOM	1468	С	THR A		13.936	54.528	9.224	1.00 45.65	AAAA
ATOM	1469	0	THR A	187	13.255	55.177	10.014	1.00 44.03	AAAA
MOTA	1470	N	LYS A	188	15.186	54.867	8.914	1.00 47.97	AAAA
ATOM	1471	CA	LYS A	188	15.807	56.040	9.521	1.00 50.73	AAAA
MOTA	1472								AAAA
		CB	LYS A		16.298	55.687	10.919	1.00 50.11	
ATOM	1473	CG	LYS A		16.494	56.872	11.833	1.00 50.52	AAA
MOTA	1474	CD	LYS A	188	16.824	56.383	13.226	1.00 51.46	AAAA
ATOM	1475	CE	LYS A	188	16.889	57.514	14.221	1.00 52.25	AAAA
ATOM	1476	NZ	LYS A		17.177	56.996	15.583	1.00 52.30	AAAA
ATOM	1477	C	LYS A				8.709	1.00 52.68	AAAA
					16.949	56.664			
MOTA	1478	0	LYS A		17.176	57.874	8.785	1.00 53.98	AAAA
ATOM	1479	N	ILE A	189	17.666	55.852	7.939	1.00 53.29	AAAA
MOTA	1480	CA	ILE A	189	18.765	56.364	7.119	1.00 54.99	AAAA
MOTA	1481	CB	ILE A		19.967	55.392	7.137	1.00 55.83	AAAA
ATOM	1482		ILE A		21.129	55.967	6.315	1.00 57.48	AAAA
ATOM	1483		ILE A		20.405	55.140	8.580	1.00 56.12	AAAA
MOTA	1484		ILE P		21.553	54.154	8.700	1.00 56.06	AAAA
ATOM	1485	С	ILE A	189	18.293	56.531	5.671	1.00 55.28	AAAA
MOTA	1486	0	ILE P	189	19.015	57.024	4.803	1.00 54.25	AAAA
ATOM	1487	N	ILE A		17.060	56.112	5.430	1.00 55.95	AAAA
ATOM	1488	CA	ILE P		16.457	56.165	4.110	1.00 56.08	AAAA
ATOM	1489	CB	ILE P		16.266	54.733	3.582	1.00 56.14	AAAA
ATOM	1490	CG2	ILE F	190	15.553	54.730	2.249	1.00 56.11	AAAA
ATOM	1491	CG1	ILE P	190	17.636	54.071	3.452	1.00 57.53	AAAA
ATOM	1492		ILE F		17.596	52.667	2.879	1.00 60.38	AAAA
ATOM	1493	C	ILE A		15.114	56.880	4.208	1.00 57.08	AAAA
ATOM	1494							1.00 57.69	AAAA
		0	ILE A		14.092	56.387	3.723		
MOTA	1495	N	CYS A	7 TAT	15.116	58.045	4.850	1.00 56.18	AAAA

ATOM	1496	CA	CYS Z	A 191	13.889	58.808	5.004	1.00 54.94	AAAA
ATOM	1497	C		A 191	13.947	60.188	4.364	1.00 55.22	AAAA
ATOM	1498	0	CYS	A 191	14.988	60.858	4.355	1.00 54.81	AAAA
ATOM	1499	CB	CYS Z	A 191	13.523	58.959	6.482	1.00 54.47	AAAA
ATOM	1500	SG	CVC	A 191	12.977	57.453	7.347	1.00 52.93	AAAA
MOTA	1501	N		A 192	12.792	60.602	3.849	1.00 55.09	AAAA
ATOM	1502	CA	ALA Z	A 192	12.630	61.884	3.188	1.00 53.54	AAAA
ATOM	1503	CB	מ.דמ	A 192	11.171	62.042	2.742	1.00 52.78	AAAA
ATOM	1504	C		A 192	13.061	63.071	4.055	1.00 52.81	AAAA
ATOM	1505	0	ALA A	A 192	12.775	63.125	5.258	1.00 51.08	AAAA
ATOM	1506	N	GIN :	A 193	13.745	64.017	3.411	1.00 52.86	AAAA
ATOM	1507	CA	GLN A	A 193	14.253	65.234	4.044	1.00 52.86	AAAA
ATOM	1508	CB	GLN I	A 193	14.454	66.328	2.996	1.00 51.92	AAAA
ATOM	1509	CG	GT.N	A 193	15.554	66.049	1.993	0.01 51.40	AAAA
								0.01 50.90	
ATOM	1510	CD		A 193	15.694	67.161	0.975	–	AAAA
ATOM	1511	OE1	GLN 3	A 193	14.814	67.370	0.140	0.01 50.51	AAAA
ATOM	1512	NE2	GIN :	A 193	16.801	67.890	1.046	1.00 50.22	AAAA
									AAAA
MOTA	1513	С		A 193	13.372	65.783	5.150	1.00 53.45	
ATOM	1514	0	GLN	A 193	13.837	66.005	6.261	1.00 52.91	AAAA
ATOM	1515	N	GT.N	A 194	12.102	66.014	4.836	1.00 54.55	AAAA
						66.547	5.820	1.00 55.29	AAAA
ATOM	1516	CA		A 194	11.173				
ATOM	1517	CB	GLN .	A 194	10.214	67.554	5.179	1.00 54.92	, AAAA
ATOM	1518	CG	GLN	A 194	10.515	67.855	3.747	1.00 57.71	AAAA
ATOM	1519	CD		A 194	9.806	66.912	2.819	1.00 60.36	AAAA
MOTA	1520	OE1	GLN .	A 194	9.390	65.823	3.224	1.00 61.15	AAAA
ATOM	1521	NE2	GLN	A 194	9.654	67.322	1.560	1.00 60.88	AAAA
ATOM	1522	C		A 194	10.370	65.466	6.521	1.00 55.43	AAAA
ATOM	1523	0	GLN .	A 194	9.137	65.435	6.412	1.00 55.39	AAAA
ATOM	1524	N	CYS	A 195	11.072	64.593	7.249	1.00 54.67	AAAA
ATOM	1525	CA		A 195	10.421	63.516	7.990	1.00 54.03	AAAA
ATOM	1526	C	CYS .	A 195	11.144	63.075	9.235	1.00 52.85	AAAA
ATOM	1527	0	CYS :	A 195	12.146	62.378	9.152	1.00 53.28	AAAA
MOTA	1528	CB		A 195	10.227	62.301	7.095	1.00 54.71	AAAA
									AAAA
MOTA	1529	SG		A 195	8.977	62.612	5.825	1.00 56.28	
ATOM	1530	N	SER .	A 196	10.641	63.482	10.394	1.00 52.12	AAAA
ATOM	1531	CA	SER	A 196	11.253	63.061	11.650	1.00 51.48	AAAA
						64.243	12.591	1.00 52.17	AAAA
MOTA	1532	CB		A 196	11.471				
ATOM	1533	OG	SER .	A 196	12.304	63.852	13.670	1.00 51.42	AAAA
ATOM	1534	С	SER .	A 196	10.294	62.049	12.268	1.00 50.00	AAAA
ATOM	1535	0		A 196	9.230	62.398	12.777	1.00 49.13	AAAA
ATOM	1536	N	GLY .	A 197	10.702	60.792	12.190	1.00 48.26	AAAA
ATOM	1537	CA	GLY .	A 197	9.919	59.676	12.663	1.00 47.03	AAAA
ATOM	1538	C		A 197	10.388	58.619	11.693	1.00 47.41	AAAA
ATOM	1539	0	GLY .	A 197	11.383	58.836	11.003	1.00 48.23	AAAA
ATOM	1540	N	ARG .	A 198	9.702	57.492	11.600	1.00 47.31	AAAA
ATOM	1541	CA	ARG	A 198	10.150	56.457	10.672	1.00 47.64	AAAA
MOTA	1542	CB		A 198	9.896	55.075	11.281	1.00 46.93	AAAA
ATOM	1543	CG	ARG .	A 198	10.105	55.028	12.790	1.00 46.12	AAAA
ATOM	1544	CD	ARG	A 198	11.555	55.253	13.206	1.00 44.22	AAAA
				A 198	12.373	54.062	13.004	1.00 42.54	AAAA
ATOM	1545	NE							
MOTA	1546	CZ	ARG .	A 198	13.625	53.938	13.427	1.00 41.82	AAAA
ATOM	1547	NH1	ARG	A 198	14.208	54.929	14.081	1.00 41.80	AAAA
ATOM	1548			A 198	14.300	52.828	13.181	1.00 41.33	AAAA
MOTA	1549	С		A 198	9.435	56.585	9.324	1.00 48.05	AAAA
ATOM	1550	0	ARG .	A 198	8.327	57.111	9.251	1.00 47.77	AAAA
MOTA	1551	N	CYS	A 199	10.065	56.111	8.255	1.00 48.27	AAAA
					9.438		6.945	1.00 48.12	AAAA
MOTA	1552	CA		A 199		56.192			
ATOM	1553	С	CYS .	A 199	9.055	54.844	6.359	1.00 47.22	AAAA
MOTA	1554	0	CYS	A 199	8.265	54.127	6.943	1.00 47.77	AAAA
	1555			A 199	10.338	56.944	5.980	1.00 49.86	AAAA
ATOM		CB							
ATOM	1556	SG	CYS	A 199	12.046	56.350	5.934	1.00 49.71	AAAA
ATOM	1557	N	ARG	A 200	9.601	54.499	5.203	1.00 46.19	AAAA
				A 200			4.569	1.00 46.12	AAAA
ATOM	1558	CA			9.262	53.229			
MOTA	1559	CB	ARG	A 200	7.742	53.067	4.544	1.00 45.61	AAAA
ATOM	1560	CG	ARG	A 200	7.228	51.839	3.830	1.00 45.41	AAAA
ATOM	1561			A 200	6.019	51.272	4.567	1.00 46.65	AAAA
		CD							
ATOM	1562	NE		A 200	4.707	51.817	4.179	1.00 46.13	AAAA
ATOM	1563	CZ	ARG	A 200	4.384	53.104	4.076	1.00 44.31	AAAA
ATOM	1564			A 200	5.274	54.053	4.317	1.00 44.52	AAAA
									AAAA
ATOM	1565			A 200	3.144	53.442	3.754	1.00 42.55	
ATOM	1566	C	ARG	A 200	9.816	53.152	3.148	1.00 46.20	AAAA
ATOM	1567	0		A 200	10.078	54.177	2.514	1.00 46.33	AAAA
									AAAA
MOTA	1568	N		A 203	10.801	55.222	-0.550	1.00 47.58	
ATOM	1569	CA	SER	A 203	11.189	56.209	0.448	1.00 48.12	AAAA
MOTA	1570	СВ		A 203	12.642	55.979	0.849	1.00 47.75	AAAA
	_0.0	2.0			22.034	23.3.3	3.333		

MOTA	1571	OG	SER	Α	203	13.489	56.010	-0.285	1.00	45.70	AAAA
ATOM	1572	С	SER	А	203	11.011	57.664	-0.010		49.45	AAAA
ATOM	1573	0	SER			11.959	58.454	0.033		48.09	AAAA
ATOM	1574	N	PRO			9.797	58.028	-0.478		51.09	AAAA
ATOM	1575	CD	PRO			8.804	57.094	-1.051		51.73	
ATOM	1576	CA	PRO			9.518	59.392	-0.935		51.61	AAAA
ATOM	1577	CB	PRO			8.739					AAAA
ATOM	1578	CG	PRO				59.153	-2.215		52.00	AAAA
ATOM	1579	C	PRO			7.853	58.014	-1.821		51.12	AAAA
ATOM	1580					8.685	60.158	0.090		52.49	AAAA
		0	PRO			9.205	60.966	0.871		52.29	AAAA
ATOM	1581	N	SER			7.381	59.877	0.065		53.64	AAAA
ATOM	1582	CA	SER			6.402	60.489	0.956		52.92	AAAA
ATOM	1583	CB	SER			5.431	61.327	0.140		49.64	AAAA
MOTA	1584	OG	SER			4.556	62.009	0.996		48.39	AAAA
MOTA	1585	С	SER			5.629	59.419	1.741		53.92	AAAA
ATOM	1586	0	SER			4.394	59.438	1.787		53.33	AAAA
ATOM	1587	N	ASP			6.369	58.486	2.347	1.00	54.56	AAAA
ATOM	1588	CA	ASP			5.781	57.39 <b>9</b>	3.137	1.00	54.85	AAAA
ATOM	1589	CB	ASP			6.283	56.042	2.654	1.00	55.67	AAAA
ATOM	1590	CG	ASP	Α	206	6.499	55.999	1.170	1.00	56.06	AAAA
MOTA	1591	OD1	ASP	Α	206	5.546	56.287	0.421	1.00	57.84	AAAA
ATOM	1592	OD2	ASP	Α	206	7.627	55.672	0.758	1.00	55.94	AAAA
MOTA	1593	С	ASP	A	206	6.190	57.557	4.592	1.00	53.99	AAAA
ATOM	1594	0	ASP	Α	206	6.541	56.583	5.259		53.26	AAAA
ATOM	1595	N	CYS			6.137	58.792	5.071		53.24	AAAA
ATOM	1596	CA	CYS			6.517	59.109	6.433		52.25	AAAA
ATOM	1597	С	CYS			5.475	58.777	7.470		51.34	AAAA
ATOM	1598	0	CYS			4.383	59.331	7.473		53.10	AAAA
ATOM	1599	CB	CYS			6.891	60.566	6.498		52.31	AAAA
ATOM	1600	SG	CYS			8.265	60.786	5.355		54.09	AAAA
ATOM	1601	N	CYS			5.850	57.864	8.357		49.04	
ATOM	1602	CA	CYS			4.999	57.381	9.425		45.35	AAAA
ATOM	1603	C	CYS			4.513	58.457				AAAA
ATOM	1604	Ö	CYS					10.354		44.62	AAAA
ATOM	1605	СВ	CYS			5.156 5.759	59.501	10.514		43.65	AAAA
ATOM	1606	SG					56.358	10.239		44.09	AAAA
ATOM	1607	N	CYS			6.447	55.048	9.206		40.58	AAAA
ATOM	1608	CA	HIS			3.372	58.185	10.975		43.55	AAAA
ATOM	1609	CB	HIS			2.792	59.104	11.935		42.68	AAAA
ATOM	1610	CG	HIS			1.548	58.493	12.555		40.84	AAAA
ATOM	1611		HIS			0.892	59.379	13.555		40.84	AAAA
ATOM	1612		HIS			-0.396 1.589	59.477	13.951		41.61	AAAA
ATOM	1613		HIS				60.323	14.277		41.59	AAAA
ATOM	1614		HIS			0.757 -0.455	60.968 60.474	15.073		41.82	AAAA
ATOM	1615	C	HIS					14.895		42.44	AAAA
ATOM	1616	0	HIS			3.862	59.256	13.002		43.80	AAAA
ATOM	1617	N	ASN			4.512 4.053	58.268	13.355		45.43	AAAA
ATOM	1618	CA	ASN				60.469	13.520		43.51	AAAA
ATOM	1619		ASN			5.080 4.954	60.709	14.547		42.51	AAAA
ATOM	1620	CG					62.139			41.45	AAAA
ATOM	1621		ASN			5.103	63.183	13.995		41.20	AAAA
ATOM	1622		ASN			6.136 4.069	63.259	13.329		40.82	AAAA
			ASN				63.995			40.82	AAAA
ATOM ATOM	1623 1624	C 0	ASN ASN			5.081	59.706	15.724		41.52	AAAA
ATOM	1625					6.136	59.410	16.289		40.33	AAAA
ATOM	1625	N	GLN			3.907	59.175	16.070		40.50	AAAA
			GLN			3.769	58.237	17.179		40.01	AAAA
ATOM	1627	CB	GLN			2.340	58.277	17.730		38.65	AAAA
ATOM	1628	CG	GLN			2.029	59.498	18.569		36.98	AAAA
ATOM	1629	CD		A	211	2.975	59.654	19.737		37.20	AAAA
ATOM	1630		GLN			2.989	58.829			38.02	AAAA
ATOM	1631		GLN			3.782	60.713	19.710		34.81	AAAA
ATOM	1632	С	GLN			4.138	56.795	16.874		40.74	AAAA
ATOM	1633	0	GLN			3.842	55.893	17.657	1.00	40.19	AAAA
ATOM	1634	N	CYS			4.778	56.565	15.738		42.02	AAAA
ATOM	1635	CA	CYS			5.168	55.209	15.382		42.80	AAAA
ATOM	1636	С	CYS			6.620	54.974	15.745	1.00	41.52	AAAA
ATOM	1637	0	CYS			7.383	55.904	15.959	1.00	38.70	AAAA
MOTA	1638	CB	CYS	A	212	4.999	54.962	13.885	1.00	45.00	AAAA
MOTA	1639	SG	CYS	Α	212	3.310	54.985	13.193	1.00	51.05	AAAA
ATOM	1640	N	ALA	A	213	6.993	53.710	15.814	1.00	42.31	AAAA
ATOM	1641	CA	ALA	A	213	8.362	53.352	16.125		42.69	AAAA
MOTA	1642	CB	ALA	A	213	8.506	53.019			43.86	AAAA
ATOM	1643	C	ALA	A	213	8.664	52.140			42.32	AAAA
ATOM	1644	0	ALA	Α	213	7.766	51.351	14.981		41.20	AAAA
ATOM	1645	N	ALA			9.929	52.006			42.78	AAAA
										-	

MOTA	1646	CA	ALA A	214	10.393	50.900	14.056	1.00 43.37	AAAA
ATOM	1647	CB	ALA A		9.797	49.561	14.531	1.00 43.18	AAAA
ATOM	1648	C	ALA A		10.018	51.166	12.602	1.00 42.48	AAAA
						51.166	11.719	1.00 42.66	AAAA
ATOM	1649	0	ALA A		10.872				AAAA
ATOM	1650	N	GLY A		8.737	51.407	12.361	1.00 40.93	
ATOM	1651	CA	GLY A	215	8.292	51.679	11.013	1.00 40.42	AAAA
ATOM	1652	С	GLY A	215	6.793	51.613	10.973	1.00 39.70	AAAA
ATOM	1653	0	GLY A	215	6.176	51.354	11.995	1.00 38.99	AAAA
ATOM	1654	N	CYS F	216	6.205	51.836	9.804	1.00 40.57	AAAA
ATOM	1655	CA	CYS A		4.756	51.804	9.678	1.00 42.39	AAAA
ATOM	1656	C	CYS F		4.303	51.190	8.396	1.00 44.07	AAAA
	1657	0	CYS F		5.095	50.921	7,508	1.00 45.43	AAAA
ATOM					4.180	53.198	9.720	1.00 42.46	AAAA
MOTA	1658	CB	CYS F						AAAA
ATOM	1659	SG	CYS F		4.769	54.274	8.384	1.00 41.15	
ATOM	1660	N	THR F		2.996	51.019	8.292	1.00 45.80	AAAA
ATOM	1661	CA	THR F	217	2.396	50.425	7.121	1.00 47.24	AAAA
ATOM	1662	CB	THR A	217	1.627	49.173	7.526	1.00 46.37	AAAA
ATOM	1663	OG1	THR A	217	1.118	48.536	6.358	1.00 48.86	AAAA
ATOM	1664	CG2	THR A	217	0.470	49.530	8.443	1.00 46.90	AAAA
ATOM	1665	C	THR A		1.453	51.402	6.422	1.00 49.16	AAAA
		0	THR A		0.364	51.024	6.001	1.00 49.53	AAAA
ATOM	1666				1.876		6.287	1.00 51.38	AAAA
ATOM	1667	N	GLY A			52.656			AAAA
ATOM	1668	CA	GLY A		1.027	53.650	5.648	1.00 54.01	
MOTA	1669	С	GLY A		0.419	54.572	6.693	1.00 56.18	AAAA
ATOM	1670	0	GLY A	1 218	-0.801	54.661	6.826	1.00 55.77	AAAA
MOTA	1671	N	PRO A	1 219	1.263	55.312	7.425	1.00 58.08	AAAA
ATOM	1672	CD	PRO A	1 219	2.571	55.685	6.867	1.00 59.41	AAAA
ATOM	1673	CA		1 219	0.892	56.254	8.488	1.00 59.02	AAAA
ATOM	1674	СВ		1 219	2.032	57.271	8.470	1.00 59.48	AAAA
				A 219	2.572	57.167	7.077	1.00 60.15	AAAA
ATOM	1675	CG					8.381	1.00 58.73	AAAA
ATOM	1676	С		1 219	-0.466	56.916		-	AAAA
ATOM	1677	0		3 219	-0.856	57.414	7.327	1.00 58.44	
ATOM	1678	N	ARG A	A 220	-1.167	56.908	9.508	1.00 58.69	AAAA
ATOM	1679	CA	ARG A	A 220	-2.494	57.491	9.649	1.00 59.89	AAAA
ATOM	1680	CB	ARG A	A 220	-3.474	56.880	8.639	1.00 60.19	AAAA
ATOM	1681	CG	ARG A	A 220	-4.851	57.537	8.608	1.00 61.45	AAAA
ATOM	1682	CD		A 220	-5.848	56.671	7.840	1.00 63.74	AAAA
ATOM	1683	NE		A 220	-7.194	57.247	7.805.	1.00 65.84	AAAA
					-8.274	56.613	7.350	1.00 66.41	AAAA
ATOM	1684	CZ		A 220				1.00 66.13	AAAA
MOTA	1685		ARG 2		-8.175	55.374	6.890		
ATOM	1686		ARG 2		-9.456	57.219	7.351	1.00 66.68	AAAA
ATOM	1687	С	ARG I	A 220	-2.946	57.175	11.079	1.00 60.05	AAAA
ATOM	1688	0	ARG 2	A 220	-4.117	56.854	11.319	1.00 60.28	AAAA
AT'OM	1689	N	GLU 2	A 221	-1.996	57.259	12.015	1.00 58.92	AAAA
MOTA	1690	CA	GLU 2	A 221	-2.240	56.994	13.434	1.00 57.19	AAAA
ATOM	1691	СВ		A 221	-3.448	57.799	13.928	1.00 57.05	AAAA
ATOM	1692	CG		A 221	-3.453	59.258	13.512	1.00 56.62	AAAA
		CD		A 221	-4.656	60.012	14.044	0.01 56.65	AAAA
ATOM	1693						15.281		AAAA
MOTA	1694		GLU :		-4.811				AAAA
ATOM	1695		GLU		-5.446	60.525	13.224	0.01 56.65	
ATOM	1696	С		A 221	-2.485	55.511	13.698		AAAA
MOTA	1697	0	GLU .	A 221	-2.174	54.994	14.769	1.00 55.31	AAAA
ATOM	1698	N	SER .	A 222	-3.041	54.830	12.706	1.00 56.18	AAAA
ATOM	1699	CA	SER .	A 222	-3.355	53.419	12.832	1.00 56.43	AAAA
ATOM	1700	CB		A 222	-4.870	53.221	12.759	1.00 57.00	AAAA
ATOM	1701	OG		A 222	-5.199	51.846	12.645	1.00 58.42	AAAA
ATOM	1702	C		A 222	-2.686	52.582	11.757	1.00 55.83	AAAA
						51.862	11.014	1.00 57.02	AAAA
ATOM	1703	0		A 222	-3.353			1.00 54.27	AAAA
ATOM	1704	N		A 223	-1.366	52.663	11.679		AAAA
ATOM	1705	CA		A 223	-0.628	51.904	10.685	1.00 52.73	
ATOM	1706	CB		A 223	-0.605	52.676	9.370	1.00 54.05	AAAA
ATOM	1707	CG	ASP	A 223	-1.999	53.05 <b>7</b>	8.902	1.00 54.95	AAAA
ATOM	1708	OD:	L ASP	A 223	-2.819	52.148	8.656	1.00 55.77	AAAA
ATOM	1709		2 ASP		-2.278	54.266	8.788	1.00 55.74	AAAA
ATOM	1710	C.		A 223	0.774	51.704	11.212	1.00 51.38	AAAA
ATOM	1711	ő		A 223	1.700	51.361	10.475	1.00 50.53	AAAA
						51.928	12.511	1.00 50.29	AAAA
ATOM	1712	И		A 224	0.915			1.00 30.29	AAAA
ATOM	1713	CA		A 224	2:197	51.791	13.180		AAAA
ATOM	1714	С		A 224	2.590	50.328	13.380		
ATOM	1715	0		A 224		49.445	13.478	1.00 44.36	AAAA
ATOM	1716	CB	CYS	A 224	2.158	52.470	14.558	1.00 49.31	AAAA
ATOM	1717	SG	CYS	A 224	2.096	54.298	14.669		AAAA
ATOM	1718	N		A 225	3.888	50.076	13.423	1.00 43.13	AAAA
ATOM	1719	CA		A 225	4.356	48.734	13.688		<b>AAA</b> A
ATOM	1720	CB		A 225	5.842	48.606	13.352		AAAA
ALON	1120	CB	טיפים	220	J.042	-5.500			

ATOM	1721	CG	LEU	А	225	6.293	48.660	11.888	1.00 38.67	AAAA
ATOM	1722	CD1	LEU	A	225	7.808	48.619	11.837	1.00 38.18	AAAA
ATOM	1723	CD2	LEU	А	225	5.710	47.508	11.108	1.00 37.49	AAAA
ATOM	1724	С	LEU	А	225	4.141	48.635	15.200	1.00 41.25	AAAA
ATOM	1725	0	LEU	Α	225	3.179	48.018	15.668	1.00 41.17	AAAA
ATOM	1726	N	VAL	Α	226	5.035	49.274	15.952	1.00 39.88	AAAA
ATOM	1727	CA	VAL	Α	226	4.950	49.313	17.408	1.00 38.79	AAAA
ATOM	1728	CB	VAL	Α	226	6.267	48.829	18.066	1.00 37.00	AAAA
ATOM	1729	CG1	VAL	Α	226	6.128	48.842	19.580	0.01 38.00	AAAA
ATOM	1730	CG2	VAL	Α	226	6.613	47.434	17.572	0.01 38.01	AAAA
ATOM	1731	С	VAL	Α	226	4.695	50.778	17.799	1.00 39.07	AAAA
ATOM	1732	0	VAL	Α	226	5.159	51.700	17.095	1.00 39.05	AAAA
ATOM	1733	N	CYS	Α	227	3.954	50.988	18.897	1.00 37.56	AAAA
ATOM	1734	CA	CYS	Α	227	3.640	52.331	19.386	1.00 35.54	AAAA
ATOM	1735	С	CYS	Α	227	4.790	52.879	20.190	1.00 36.25	AAAA
ATOM	1736	0	CYS	Α	227	5.363	52.183	21.012	1.00 35.94	AAAA
ATOM	1737	CB	CYS	Α	227	2.394	52.336	20.263	1.00 35.71	AAAA
ATOM	1738	SG	CYS	Α	227	0.817	52.196	19.375	1.00 31.66	AAAA
MOTA	1739	N	ARG	Α	228	5.103	54.146	19.939	1.00 37.65	AAAA
MOTA	1740	CA	ARG	A	228	6.195	54.887	20.572	1.00 37.09	AAAA
ATOM	1741	CB	ARG	Α	228	6.414	56.197	19.796	1.00 39.17	AAAA
ATOM	1742	CG	ARG	Α	228	7.628	57.012	20.192	1.00 42.04	AAAA
ATOM	1743	CD	ARG	A	228	8.871	56.604	19.416	1.00 44.16	AAAA
MOTA	1744	NE	ARG	Α	228	8.739	56.891	17.990	1.00 46.13	AAAA
MOTA	1745	CZ	ARG	Α	228	9.717	56.758	17.098	1.00 47.14	AAAA
ATOM	1746	NH1	ARG	Α	228	10.917	56.337	17.473	1.00 47.40	AAAA
ATOM	1747	NH2	ARG	Α	228	9.495	57.065	15.828	1.00 48.01	AAAA
ATOM	1748	С	ARG	Α	228	5.914	55.202	22.039	1.00 36.43	AAAA
ATOM	1749	0	ARG	Α	228	6.841	55.377	22.826	1.00 35.10	AAAA
ATOM	1750	N	LYS	Α	229	4.635	55.286	22.401	1.00 35.70	AAAA
ATOM	1751	CA	LYS	A	229	4.271	55.593	23.776	1.00 35.59	AAAA
ATOM	1752	CB	LYS	Α	229	4.078	57.103	23.952	1.00 35.75	AAAA
ATOM	1753	CG	LYS	Α	229	5.366	57.908	23.920	1.00 35.21	AAAA
ATOM	1754	CD	LYS	Α	229	5.139	59.344	24.354	0.01 34.93	AAAA
ATOM	1755	CE	LYS	Α	229	6.440	60.131	24.354	0.01 34.60	AAAA
ATOM	1756	NZ	LYS	Α	229	6.250	61.535	24.812	0.01 34.66	AAAA
ATOM	1757	C	LYS	Α	229	3.037	54.865	24.290	1.00 36.26	AAAA
ATOM	1758	0	LYS	Α	229	3.136	54.025	25.177	1.00 37.90	AAAA
ATOM	1759	N	PHE	Α	230	1.871	55.196	23.750	1.00 36.73	AAAA
MOTA	1760	CA	PHE	Α	230	0.632	54.568	24.193	1.00 36.75	AAAA
ATOM	1761	CB	PHE	Α	230	-0.294	55.606	24.838	1.00 35.92	AAAA
MOTA	1762	CG			230	0.004	55.875	26.288	1.00 35.73	AAAA
MOTA	1763	CD1	PHE	Α	230	1.218	56.425	26.680	1.00 35.26	AAAA
ATOM	1764		PHE			-0.926	55.561	27.266	1.00 35.45	AAAA
MOTA	1765		PHE			1.503	56.654	28.021	1.00 35.54	AAAA
MOTA	1766		PHE			-0.650	55.786	28.605	1.00 36.38	AAAA
MOTA	1767	CZ			230	0.570	56.335	28.984	1.00 35.41	AAAA
ATOM	1768	C			230	-0.108	53.888	23.059	1.00 38.00	AAAA
ATOM	1769	0			230	0.028	54.262	21.899	1.00 38.65	AAAA
MOTA	1770	И			231	-0.904	52.890	23.409	1.00 39.15	AAAA
ATOM	1771	CA			231	-1.686	52.149	22.433	1.00 40.69	AAAA
ATOM	1772	CB			231	-1.318	50.662	22.496	1.00 42.85	AAAA
ATOM	1773	CG			231	-2.066	49.747	21.523	1.00 46.15	AAAA
ATOM	1774	CD			231	-1.686	48.276	21.757	1.00 48.43	AAAA
MOTA	1775	NE			231	-2.475	47.645	22.823	1.00 51.09	AAAA
ATOM	1776	CZ			231	-2.048	46.645	23.598	1.00 50.72	AAAA
ATOM	1777				231	-0.826	46.154	23.443	1.00 51.16	AAAA
ATOM	1778				231	-2.850	46.119	24.517	1.00 49.04	AAAA
ATOM	1779	C			231	-3.149	52.330	22.792	1.00 40.51	AAAA
ATOM	1780	0			231	-3.583	51.840	23.828	1.00 41.99	AAAA
ATOM	1781	N			232	-3.898	53.064	21.970	1.00 40.09	AAAA
ATOM	1782	CA			232	-5.326	53.262	22.222	1.00 39.61	AAAA
ATOM	1783	CB			232	-5.780	54.674	21.845	1.00 38.66	AAAA
ATOM	1784	CG			232	-7.148	55.024	22.426	1.00 38.60	AAAA AAAA
ATOM	1785				232	-7.712	56.064	22.043	1.00 40.26 1.00 37.24	AAAA
ATOM	1786				232	-7.666	54.271	23.270		AAAA
ATOM	1787	C			232	-6.018	52.228	21.345	1.00 39.88	AAAA
ATOM	1788	0			232	-6.382	52.480	20.197	1.00 38.47	AAAA
ATOM	1789	N			233	-6.179	51.046	21.920	1.00 41.63	AAAA
ATOM	1790	CA			233	-6.769	49.915	21.243	1.00 42.44	AAAA
ATOM	1791	CB			233	-8.259 -0.005	50.128	20.984	1.00 44.32 1.00 48.29	AAAA
ATOM	1792	CG			233	-8.995 -9.727	48.813	20.813	1.00 48.29	AAAA
ATOM ATOM	1793 1794	CD			233	-8.727 -9.292	47.835 48.022	21.967 23.069	1.00 52.51	AAAA
ATOM	1795				233	-7.939	46.882	21.776	1.00 52.31	AAAA
AION	1133	762	الدت .		د دے	1.939	40.002	21.110	2.00 02.00	

ATOM	1796	С	GLU	А	233	-6.030	49.694	19.941	1.00 41.69	AAAA
ATOM	1797	ō	GLU			-4.978	49.063	19.924	1.00 41.89	AAAA
ATOM	1798	N	ALA			-6.544	50.243	18.855	1.00 41.27	AAAA
						-5.893	50.032	17.575	1.00 42.27	. AAAA
ATOM	1799	CA	ALA					16.553	1.00 42.27	AAAA
ATOM	1800	CB	ALA			-6.938	49.572			AAAA
MOTA	1801	C	ALA			-5.107	51.224	17.030	1.00 41.41	
ATOM	1802	0	ALA	A	234	-4.851	51.310	15.830	1.00 41.98	AAAA
ATOM	1803	N	THR	А	235	-4.690	52.128	17.903	1.00 40.03	AAAA
ATOM	1804	CA	THR	Α	235	-3.961	53.299	17.439	1.00 39.19	AAAA
ATOM	1805	CB	THR	Α	235	-4.929	54.471	17.274	1.00 39.66	AAAA
ATOM	1806	OG1	THR	Α	235	-5.953	54.107	16.342	1.00 39.44	AAAA
ATOM	1807		THR			-4.204	55.709	16.784	1.00 41.07	AAAA
ATOM	1808	C	THR			-2.871	53.707	18.410	1.00 37.83	AAAA
			THR			-2.876	53.273	19.550	1.00 38.57	AAAA
ATOM	1809	0								AAAA
MOTA	1810	N	CYS			-1.930	54.533	17.966	1.00 37.08	
ATOM	1811	CA	CYS			-0.878	54.997	18.866	1.00 36.69	AAAA
ATOM	1812	С	CYS	А	236	-1.179	56.415	19.320	1.00 36.04	AAAA
ATOM	1813	0	CYS	А	236	-1.659	57.240	18.542	1.00 35.63	AAAA
ATOM	1814	CB	CYS	Α	236	0.505	54.975	18.197	1.00 36.79	AAAA
ATOM	1815	SG	CYS	А	236	1.131	53.327	17.732	1.00 38.41	AAAA
ATOM	1816	N	LYS	А	237	-0.898	56.689	20.587	1.00 35.48	AAAA
ATOM	1817	CA	LYS			-1.117	58.014	21.151	1.00 34.54	AAAA
ATOM	1818	CB	LYS			-2.385	58.018	21.997	1.00 32.65	AAAA
			LYS			-3.607	57.482	21.297	1.00 29.86	AAAA
ATOM	1819	CG							1.00 27.86	AAAA
MOTA	1820	CD	LYS			-3.984	58.340	20.127		
ATOM	1821	CE	LYS			-5.368	58.006	19.652	1.00 26.79	AAAA
ATOM	1822	NZ	LYS			-6.343	58.216	20.736	1.00 26.75	AAAA
MOTA	1823	С	LYS	Α	237	0.069	58.416	22.025	1.00 35.04	AAAA
ATOM	1824	0	LYS	Α	237	0.884	57.579	22.406	1.00 33.72	AAAA
ATOM	1825	N	ASP	Α	238	0.158	59.704	22.332	1.00 36.22	AAAA
ATOM	1826	CA	ASP	Α	238	1.223	60.234	23.178	1.00 36.75	AAAA
ATOM	1827	CB	ASP			1.614	61.628	22.703	1.00 37.69	AAAA
ATOM	1828	CG	ASP			2.618	62.294	23.618	1.00 40.60	AAAA
			ASP			3.720	61.729	23.805	1.00 41.68	AAAA
ATOM	1829							24.150	1.00 41.14	AAAA
ATOM	1830		ASP			2.305	63.387			
ATOM	1831	С	ASP			0.672	60.319	24.594	1.00 36.57	AAAA .
MOTA	1832	0	ASP			1.405	60.321	25.585	1.00 36.18	AAAA
ATOM	1833	N	THR	Α	239	-0.646	60.367	24.667	1.00 35.86	AAAA
ATOM	1834	CA	THR	A	239	-1.337	60.482	25.921	1.00 37.05	AAAA
ATOM	1835	CB	THR	Α	239	-1.310	61.954	26.404	1.00 37.76	AAAA
ATOM	1836	OG1	THR	Α	239	-0.077	62.202	27.094	1.00 38.43	AAAA
ATOM	1837	CG2	THR	А	239	-2.489	62.263	27.315	1.00 38.92	AAAA
ATOM	1838	C	THR			-2.754	60.045	25.648	1.00 36.84	AAAA
ATOM	1839	ō	THR			-3.394	60.559	24.730	1.00 37.41	AAAA
ATOM	1840	N			240		59.095	26.434	1.00 36.64	AAAA
			CYS			-4.604	58.622	26.224	1.00 36.25	AAAA
ATOM	1841	CA						26.291	1.00 35.05	AAAA
ATOM	1842	С			240	-5.495	59.827			AAAA
MOTA	1843	0			240	-5.182	60.796	26.969	1.00 34.52	
ATOM	1844	CB	CYS			-5.037	57.632	27.307	1.00 37.17	AAAA
ATOM	1845	SG	CYS	Α	240	-3.936	56.207	27.526	1.00 37.97	AAAA
ATOM	1846	N	PRO	Α	241	-6.603	59.803	25.555	1.00 35.08	AAAA
ATOM	1847	CD	PRO	Α	241	-7.008	58.854	24.505	1.00 35.22	AAAA
ATOM	1848	CA	PRO	Α	241	-7.501	60.956	25.606	1.00 35.36	AAAA
MOTA	1849	CB			241	-8.549	60.618	24.540	1.00 34.35	AAAA
ATOM	1850	CG			241	-8.474	59.118	24.413	1.00 34.55	AAAA
ATOM	1851	C			241	-8.066	61.101	27.027	1.00 33.47	AAAA
							60.164		1.00 32.74	AAAA
ATOM	1852	0			241	-8.622				AAAA
ATOM	1853	N			242	-7.911	62.286		1.00 33.27	
ATOM	1854	CD			242	-7.326	63.487	27.021	1.00 34.97	AAAA
MOTA	1855	CA	PRO	Α	242	-8.377	62.590	28.981	1.00 34.95	AAAA
ATOM	1856	CB	PRO	Α	242	-8.038	64.064	29.140	1.00 35.00	AAAA
ATOM	1857	CG	PRO	Α	242	-6.883	64.248	28.228	1.00 35.29	AAAA
ATOM	1858	С	PRO	Α	242	-9.849	62.343	29.156	1.00 35.57	AAAA
ATOM	1859	ō			242	-10.629	62.559	28.229	1.00 35.45	AAAA
MOTA	1860	N			243	-10.218	61.897		1.00 36.94	AAAA
		CA			243	-11.609	61.624	30.682	1.00 37.91	AAAA
MOTA	1861							32.135	1.00 37.75	AAAA
ATOM	1862	CB			243	-11.743	61.163		1.00 37.73	AAAA
ATOM	1863	CG			243	-11.280	59.764	32.555		
MOTA	1864		LEU			-11.605	59.575	34.023	1.00 36.74	AAAA
MOTA	1865	CD2	LEU			-11.969	58.689		1.00 36.10	AAAA
ATOM	1866	C	LEU	A	243	-12.444	62.880	30.484	1.00 38.88	AAAA
MOTA	1867	0	LEU	Α	243	-13.635	62.801	30.186	1.00 39.81	AAAA
ATOM	1868	N			244	-11.815	64.040	30.657	1.00 38.61	AAAA
ATOM	1869	CA			244	-12.504	65.315		1.00 37.67	AAAA
ATOM	1870	CB			244	-12.828	65.922	31.852	1.00 39.24	AAAA
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ATOM	1871	CG	MET	Α	244	-13	.735	65.066	32.	686	1.00	41.36	AAAA
ATOM	1872		MET				.168	65.991		205		45.46	AAAA
ATOM	1873		MET MET				.462 .647	65.345 66.280		. 080 . 697		44.42 35.85	AAAA AAAA
ATOM ATOM	1874 1875		MET				.461	66.039		496		35.41	AAAA
ATOM	1876	N	LEU				. 253	67.375		255		33.97	AAAA
ATOM	1877	CA	LEU	Α	245	-11	.548	68.367	28.	457	1.00	32.66	AAAA
ATOM	1878	CB	LEU				.767	68.074		. 973		30.77	AAAA
ATOM	1879	CG	LEU				.543	67.835		. 095		29.40	AAAA
ATOM	1880		LEU				. 554	66.940		.798		29.86 29.46	AAAA AAAA
ATOM ATOM	1881 1882	CD2	LEU				.982 .036	67.200 69.773		.803 .776		33.23	AAAA
ATOM	1883	0	LEU				.239	70.004		. 919		32.27	AAAA
ATOM	1884	N	TYR				.092	70.709		.875		32.69	AAAA
ATOM	1885	CA	TYR	A	246	-11	.399	72.108	29.	.181	1.00	30.97	AAAA
ATOM	1886	CB			246		.132	72.831		. 586		29.20	AAAA
ATOM	1887	CG			246		.344	74.253		.040		27.33	AAAA
MOTA	1888 1889		TYR TYR				.026 .136	74.538 75.856		.231 .700		25.88 23.69	AAAA AAAA
ATOM ATOM	1890		TYR				.791	75.315		.325		25.84	AAAA
ATOM	1891	CE2			246		.898	76.625		.785		24.41	AAAA
ATOM	1892	CZ	TYR	A	246	-10	.566	76.885	30	.971	1.00	23.70	AAAA
MOTA	1893	OH			246		.633	78.170		. 424		24.81	AAAA
ATOM	1894	С			246		-024	72.872		.025	_	30.75	AAAA
ATOM	1895	0			246		.565	72.793 73.627		.892 .320		31.52	AAAA AAAA
ATOM MOTA	1896 1897	N CA			247 247		.069 .731	74.413		.301		31.14	AAAA
ATOM	1898	CB			247		.238	74.339		.485		32.19	AAAA
ATOM	1899	CG			247		.970	75.131		.452		35.34	AAAA
MOTA	1900	OD1	ASN	Α	247	-15	6.626	76.282	26	.181		36.08	AAAA
MOTA	1901				247		.990	74.531		.861		37.73	AAAA
ATOM	1902	C			247		3.243	75.846		.488		30.59	AAAA
ATOM ATOM	1903 1904	O N			247		3.475 2.560	76.440 76.415		.529		30.73	AAAA AAAA
ATOM	1905	CD			248		2.191	75.736		.234		29.14	AAAA
ATOM	1906	CA			248		2.006	77.777		.487		31.18	AAAA
MOTA	1907	CB	PRO	А	248	-13	1.124	77.805	25	.234		30.32	AAAA
MOTA	1908	CG			248		0.870	76.374		.941		29.86	AAAA
MOTA	1909	C			248		3.017	78.913		.461 .853		31.26	AAAA AAAA
ATOM ATOM	1910 1911	N			248		2.714	80.034 78.618		.981		31.72	AAAA
ATOM	1912	CA			249		5.248	79.621		.883		33.02	AAAA
ATOM	1913	CB	THR	A	249	-16	5.131	79.381	24	.643	1.00	34.21	AAAA
MOTA	1914				249		7.142	78.414		.951		35.70	AAAA
ATOM	1915				249		5.295	78.857		.487		35.54	AAAA
MOTA MOTA	1916 1917	C 0			249		5.149 5.839	79.594 80.559		.102		33.36	AAAA AAAA
ATOM	1918	N			250		5.140	78.482		.814		32.21	AAAA
ATOM	1919	CA		_	250	_	5.996	78.332		.967	1.00	31.95	AAAA
MOTA	1920	CB	THE	? A	250		7.789	77.018		.850		33.17	AAAA
ATOM	1921				250		8.606	77.083		.683		36.02	AAAA
ATOM ATOM	1922				250		8.686 6.257	76.801 78.352		0.050 0.286		34.52 30.68	AAAA AAAA
ATOM	1923 1924	0			1 250 1 250		6.861	78.542		332		30.97	AAAA
ATOM	1925	N			251		4.949	78.158		239		30.04	AAAA
ATOM	1926	CA			251	-1	4.166	78.121	. 31	452	1.0	0 28.43	AAAA
ATOM	1927	CB			251		4.231	79.464		2.161		0 28.54	AAAA
ATOM	1928	CG			251		3.629	80.592		385		0 29.41	AAAA
MOTA	1929 1930				A 251 A 251		4.351 3.765	81.247 82.273		0.398 9.645		0 30.28 0 32.51	AAAA AAAA
ATOM ATOM	1931				A 251		2.313	80.981		1.612		0 30.59	AAAA
ATOM	1932				A 251		1.719	81.997		.873		0 31.82	AAAA
MOTA	1933	CZ			A 251	-1	2.444	82.642	2 29	9.889	1.0	0 32.62	AAAA
MOTA	1934	OH			A 251		1.837	83.643		9.151		0 33.88	AAAA
ATOM	1935	C			A 251		4.745	77.030		2.354		0 29.59	AAAA
ATOM	1936	0 N			A 251		5.039	77.263		3.535 1.776		0 29.67 0 28.62	AAAA AAAA
ATOM ATOM	1937 1938	N CA			A 252 A 252		4.933 5.452	75.846 74.687		L.776 2.490		0 28.62	
ATOM	1939	CB			A 252		6.946	74.51		2.490		0 29.84	AAAA
ATOM	1940	CG			A 252		7.832	75.541		2.923		0 32.05	AAAA
ATOM	1941	CD	GL	N A	A 252	-1	7.663	75.580	34	4.421	1.0	0 33.64	AAAA
ATOM	1942				A 252		7.677	74.545		5.091		0 33.24	AAAA
MOTA	1943				A 252		7.504	76.781		4.961		0 33.51	
ATOM ATOM	1944 1945	С 0			A 252 A 252		4.745 3.975	73.514 73.69		1.870 0.934		0 31.17 0 32.89	
AT ON	1943	J	ابلاق	. 4		-1		, 5. 63.	اد ر	J. 234	1.0		

ATOM	1946	N	MET A	253	-14.997	72.317	32.385	1.00 32.28	AAAA
MOTA	1947	CA	MET A		-14.386	71.114	31.839	1.00 32.69	AAAA
ATOM	1948	СВ	MET A		-13.837	70.227	32.943	1.00 31.28	AAAA
ATOM	1949	CG	MET A		-12.778	70.870	33.783	1.00 30.45	AAAA
ATOM	1950	SD	MET A		-11.468	71.379	32.735	1.00 31.16	AAAA
ATOM	1951	CE	MET A		-10.909	69.816	32.150	1.00 30.52	AAAA
ATOM	1952	C	MET A		-15.510	70.387	31.176	1.00 35.61	AAAA
ATOM	1953	0	MET A		-16.649	70.507	31.619	1.00 37.68	AAAA
ATOM	1954	И	ASP A		-15.203	69.626	30.128	1.00 38.31	AAAA
ATOM	1955	CA	ASP A		-16.218	68.856	29.403	1.00 38.75	AAAA
ATOM	1956	CB	ASP A		-16.350	69.395	27.980	1.00 38.58	· AAAA
ATOM	1957	CG	ASP A		-17.101	70.717	27.930	1.00 38.04	AAAA
ATOM	1958		ASP A		-16.696	71.607	27.148	1.00 37.49	AAAA
ATOM	1959		ASP A		-18.101	70.863	28.673	1.00 37.97	AAAA
ATOM	1960	С	ASP A		-15.946	67.349	29.400	1.00 40.16	AAAA
MOTA	1961	0	ASP A		-15.006	66.880	30.037	1.00 40.02	AAAA
ATOM	1962	N	VAL A		-16.749	66.593	28.661	1.00 42.11	AAAA
ATOM	1963	CA	VAL A	255	-16.619	65.140	28.655	1.00 43.79	AAAA
ATOM	1964	CB	VAL A	255	-18.008	64.496	28.628	1.00 43.56	AAAA
ATOM	1965	CG1	VAL A	255	-17.919	63.057	29.135	1.00 44.24	AAAA
ATOM	1966	CG2	VAL A	255	-18.969	65.310	29.482	1.00 44.16	AAAA
ATOM	1967	С	VAL A	255	-15.748	64.383	27.642	1.00 45.22	AAAA
ATOM	1968	0	VAL A	255	-15.302	63.276	27.940	1.00 46.20	AAAA
ATOM	1969	N	ASN A	256	-15.489	64.939	26.466	1.00 46.29	AAAA
ATOM	1970	CA	ASN A	256	-14.679	64.207	25.482	1.00 47.64	AAAA
ATOM	1971	СВ	ASN A		-13.180	64.373	25.767	1.00 46.64	AAAA
ATOM	1972	CG	ASN A		-12.311	63.659	24.751	0.01 46.65	AAAA
ATOM	1973		ASN A		-12.367	63.949	23.557	0.01 46.47	AAAA
ATOM	1974		ASN A		-11.502	62.717	25.222	0.01 46.44	AAAA
ATOM	1975	C	ASN A		-15.026	62.726	25.567	1.00 48.33	AAAA
MOTA	1976	ō	ASN A		-14.246	61.943	26.092	1.00 48.82	AAAA
ATOM	1977	N	PRO A		-16.206	62.323	25.062	1.00 49.73	AAAA
ATOM	1978	CD	PRO A		-17.178	63.080	24.252	1.00 50.42	AAAA
ATOM	1979	CA	PRO A		-16.578	60.905	25.131	1.00 49.50	AAAA
ATOM	1980	CB	PRO A		-17.911	60.855	24.379	1.00 50.50	AAAA
ATOM	1981	CG	PRO A		-17.800	61.997	23.407	1.00 50.50	AAAA
ATOM	1982	C	PRO A		-15.518	59.981	24.545	1.00 30.52	AAAA
ATOM	1983	o	PRO A		-15.456	58.803	24.889	1.00 47.21	AAAA
ATOM	1984	N	GLU A		-14.684	60.520	23.663	1.00 48.27	AAAA
ATOM	1985	CA	GLU A		-13.615	59.730	23.074	1.00 49.91	AAAA
ATOM	1986	CB	GLU A		-13.156	60.334	21.743	1.00 51.32	AAAA
ATOM	1987	CG	GLU A		-14.157	60.143	20.621	1.00 55.56	AAAA
ATOM	1988	CD	GLU A		-14.308	58.686	20.221	1.00 58.36	AAAA
ATOM	1989		GLU A		-13.352	58.137	19.626	1.00 59.74	AAAA
ATOM	1990		GLU A		-15.373	58.090	20.508	1.00 59.17	AAAA
ATOM	1991	C	GLU A		-12.446	59.694	24.049	1.00 49.10	AAAA
ATOM	1992	ō	GLU A		-11.338	60.090	23.695	1.00 50.03	AAAA
ATOM	1993	N	GLY A		-12.705	59.213	25.268	1.00 47.21	AAAA
ATOM	1994	CA	GLY A		-11.677	59.141	26.296	1.00 44.44	AAAA
ATOM	1995	C	GLY A		-11.509	57.778	26.942	1.00 43.20	AAAA
ATOM	1996	ŏ	GLY A		-12.439	56.977	26.976	1.00 42.66	AAAA
ATOM	1997	N	LYS A		-10.315	57.526	27.471	1.00 42.69	AAAA
ATOM	1998	CA	LYS A		-9.992	56.249	28.106	1.00 41.75	AAAA
ATOM	1999	CB	LYS A		-9.098	55.423	27.176	1.00 43.03	AAAA
ATOM	2000	CG	LYS A		-9.364	55.589		1.00 44.51	AAAA
MOTA	2001	CD	LYS A		-10.562	54.783	25.208	1.00 44.89	AAAA
ATOM	2002	CE	LYS A		-10.537	54.674	23.692	1.00 45.48	AAAA
ATOM	2003	NZ	LYS A		-11.601	53.792	23.160	1.00 45.50	AAAA
ATOM	2003	C	LYS A		-9.249	56.433	29.441	1.00 40.38	AAAA
ATOM	2005	Ö	LYS A		-9.128	57.547	29.956	1.00 40.79	AAAA
ATOM	2006	N	TYR A		-8.749	55.325	29.987	1.00 37.60	AAAA
ATOM	2007	CA	TYR A		-7.985	55.342	31.231	1.00 34.25	AAAA
	2007							1.00 34.23	AAAA
ATOM		CB	TYR A		-8.601	54.411	32.266		
MOTA	2009	CG	TYR A		-9.894	54.912	32.818	1.00 31.69	AAAA
MOTA	2010		TYR A		-11.093	54.575	32.225	1.00 31.15	AAAA
MOTA	2011		TYR A		-12.274	55.092	32.689	1.00 32.11	AAAA
MOTA	2012		TYR A		-9.912	55.778	33.899	1.00 30.26	AAAA
ATOM	2013		TYR A		-11.082	56.299	34.367	1.00 30.16	AAAA
ATOM	2014	CZ	TYR A		-12.261	55.955	33.757	1.00 31.68	AAAA
ATOM	2015	ОН	TYR A		-13.442	56.491	34.199	1.00 35.56	AAAA
ATOM	2016	C	TYR A		-6.559	54.903	30.971	1.00 32.94	AAAA
ATOM	2017	0	TYR A		-6.321	53.924	30.278	1.00 31.76	AAAA
ATOM	2018	N	SER A		-5.619	55.631	31.552	1.00 32.86	AAAA
ATOM	2019	CA	SER A		-4.199	55.360	31.398	1.00 33.59	AAAA AAAA
ATOM	2020	СВ	SER A	262	-3.413	56.561	31.913	1.00 33.75	AAAA

MOTA	2021	OG	SER A 262	-2.169	56.691	31.258	1.00 35.89	AAAA
MOTA	2022	С	SER A 262	-3.789	54.105	32.162	1.00 35.40	AAAA
ATOM	2023		SER A 262	-3.624	54.140	33.389	1.00 35.97	AAAA AAAA
ATOM	2024	И	PHE A 263 PHE A 263	-3.622 -3.234	52.997 51.719	31.437 32.044	1.00 35.97 1.00 34.84	AAAA
ATOM	2025 2026	CA CB	PHE A 263	-4.341	50.683	31.860	1.00 34.54	AAAA
ATOM ATOM	2025	CG	PHE A 263	-3.990	49.316	32.381	1.00 39.61	AAAA
ATOM	2028	CD1	PHE A 263	-4.727	48.201	31.988	1.00 41.67	AAAA
ATOM	2029		PHE A 263	-2.900	49.128	33.230	1.00 40.53	AAAA
MOTA	2030	CE1	PHE A 263	-4.377	46.918	32.426	1.00 42.35	AAAA
MOTA	2031	CE2	PHE A 263	-2.546	47.859	33.671	1.00 40.74	AAAA
MOTA	2032	CZ	PHE A 263	-3.284	46.753	33.266	1.00 42.13	AAAA
ATOM	2033	C	PHE A 263	-1.949	51.188	31.437 30.433	1.00 32.99 1.00 31.04	AAAA AAAA
MOTA	2034 2035	O N	PHE A 263 GLY A 264	-1.972 -0.828	50.487 51.506	32.071	1.00 32.29	AAAA
MOTA MOTA	2036	CA	GLY A 264	0.451	51.059	31.563	1.00 31.42	AAAA
ATOM	2037	C	GLY A 264	0.788	51.818	30.301	1.00 30.54	AAAA
ATOM	2038	Ó	GLY A 264	0.727	53.046	30.284	1.00 31.99	AAAA
ATOM	2039	N	ALA A 265	1.150	51.100	29.244	1.00 29.64	AAAA
MOTA	2040	CA	ALA A 265	1.483	51.739	27.973	1.00 29.82	AAAA
MOTA	2041	CB	ALA A 265	2.736	51.117	27.365	1.00 27.80	АААА АААА
ATOM	2042	C	ALA A 265 ALA A 265	0.291 0.369	51.522 51.672	27.070 25.862	1.00 29.67 1.00 29.33	AAAA
ATOM ATOM	2043 2044	O N	THR A 266	-0.821	51.192	27.705	1.00 30.73	AAAA
ATOM	2044	CA	THR A 266	-2.070	50.904	27.040	1.00 33.06	AAAA
MOTA	2046	CB	THR A 266	-2.556	49.498	27.439	1.00 34.05	AAAA
ATOM	2047		THR A 266	-1.733	48.515	26.812	1.00 37.12	AAAA
ATOM	2048	CG2	THR A 266	-4.002	49.281	27.054	1.00 35.94	AAAA
MOTA	2049	C	THR A 266	-3.116	51.880	27.499	1.00 34.62	AAAA
ATOM	2050	0	THR A 266	-3.064	52.355	28.629	1.00 35.05 1.00 37.21	AAAA AAAA
ATOM	2051	N	CYS A 267	-4.073 -5.181	52.169 53.050	26.627 26.974	1.00 37.21	AAAA
ATOM	2052 2053	CA C	CYS A 267 CYS A 267	-6.394	52.144	27.108	1.00 42.14	AAAA
ATOM ATOM	2054	o	CYS A 267	-6.753	51.419	26.177	1.00 43.36	AAAA
ATOM	2055	СВ	CYS A 267	-5.403	54.106	25.894	1.00 39.81	AAAA
ATOM	2056	SG	CYS A 267	-4.001	55.258	25.733	1.00 42.58	AAAA
MOTA	2057	N	VAL A 268	-7.029	52.181	28.269	1.00 43.42	AAAA
MOTA	2058	CA	VAL A 268	-8.158	51.303	28.503	1.00 45.29	AAAA
ATOM	2059	CB	VAL A 268	-7.815	50.313	29.629	1.00 45.57 1.00 47.96	AAAA AAAA
MOTA	2060	CG1	VAL A 268 VAL A 268	-8.996 -6.599	49.405 49.503	29.909 29.237	1.00 47.38	AAAA
ATOM ATOM	2061 2062	CGZ	VAL A 268	-9.500	51.950	28.818	1.00 45.76	AAAA
ATOM	2063	ō	VAL A 268	-9.586	52.996	29.462	1.00 46.84	AAAA
MOTA	2064	N	LYS A 269	-10.556	51.296	28.363	1.00 45.31	AAAA
MOTA	2065	CA	LYS A 269	-11.893	51.776	28.602	1:00 45.91	AAAA
ATOM	2066	CB	LYS A 269	-12.900	50.830	27.955	1.00 46.72	AAAA
ATOM	2067	CG	LYS A 269	-12.804	49.407	28.472	1.00 49.25 1.00 50.51	AAAA AAAA
MOTA	2068 2069	CD	LYS A 269 LYS A 269	-14.191 -14.131	48.796 47.549	28.653 29.516	1.00 50.31	AAAA
ATOM ATOM	2070	NZ	LYS A 269	-13.529	47.829	30.858	1.00 53.11	AAAA
ATOM	2071	C	LYS A 269	-12.127				AAAA
MOTA	2072	0	LYS A 269	-12.789	52.750	30.603	1.00 46.19	AAAA
ATOM	2073	N	LYS A 270	-11.572	50.882		1.00 46.37	AAAA
ATOM	2074	CA	LYS A 270	-11.739	50.834	32.283	1.00 46.47 1.00 45.40	AAAA AAAA
MOTA	2075	CB	LYS A 270 LYS A 270	-13.061 -14.283	50.158 50.889		1.00 44.63	AAAA
ATOM ATOM	2076 2077	CG CD	LYS A 270	-14.522				AAAA
ATOM	2078		LYS A 270	-15.751				AAAA
ATOM	2079		LYS A 270	-16.981			_	AAAA
ATOM	2080		LYS A 270	-10.592	50.080	32.947		AAAA
MOTA	2081	0	LYS A 270	-10.249				AAAA
MOTA	2082		CYS A 271	-10.014				AAAA
ATOM	2083			-8.893				AAAA AAAA
MOTA	2084		CYS A 271	-9.162				AAAA
MOTA	2085 2086		CYS A 271 CYS A 271	-10.313 -8.488				AAAA
ATOM ATOM	2086			-7.815				ÄAAA
ATOM	2088		PRO A 272	-8.083				AAAA
ATOM	2089			-6.709				AAAA
ATOM	2090			-8.110				AAAA
ATOM	2091			-6.644				AAAA
ATOM	2092			-6.098				АААА АААА
MOTA	2093		PRO A 272	-8.649 -9.061				AAAA
MOTA	2094 2095		PRO A 272 ARG A 273	-8.624				AAAA
ATOM	2095	, 14	TING IL 713	3.024				

MOTA	2096	CA	ARG	A 27	3	-9.093	45.014	39.403	1.00 57.68	AAAA
ATOM	2097	CB	ARG			-9.605	43.572	39.541	1.00 60.30	AAAA
ATOM	2098	CG	ARG			-10.535	43.080	38.419	1.00 64.49	AAAA
									1.00 67.04	AAAA
ATOM	2099	CD	ARG			-11.869	43.838	38.334		
ATOM	2100	ΝĒ	ARG			-12.581	43.521	37.092	1.00 68.77	AAAA
MOTA	2101	CZ	ARG	A 27	3	-13.682	44.138	36.667	1.00 69.62	AAAA
ATOM	2102	NH1	ARG	A 2	3	-14.220	45.118	37.385	1.00 70.12	AAAA
ATOM	2103	NH2	ARG	A 27	3	-14.241	43.784	35.515	1.00 69.16	AAAA
ATOM	2104	С	ARG	A 27	3	-7.954	45.251	40.403	1.00 57.21	AAAA
ATOM	2105	0	ARG			-6.774	44.996	40.121	1.00 56.40	AAAA
ATOM	2106	N	ASN			-8.328	45.746	41.574	1.00 56.21	AAAA
ATOM	2107	CA	ASN			-7.390	46.051	42.642	1.00 55.41	AAAA
							44.830	43.030	1.00 56.70	AAAA
ATOM	2108	CB	ASN			-6.556				AAAA
ATOM	2109	CG	ASN			-5.974	44.953	44.436	1.00 57.44	
MOTA	2110		ASN			-5.153	44.135	44.863	1.00 57.04	AAAA
MOTA	2111		ASN			-6.412	45.980	45.167	1.00 57.81	AAAA
ATOM	2112	С	ASN			-6.461	47.216	42.317	1.00 54.19	AAAA
MOTA	2113	0	ASN	A 2	4	-5.571	47.535	43.109	1.00 54.98	AAAA
ATOM	2114	N	TYR	A 2'	5	-6.645	47.837	41.152	1.00 51.23	AAAA
ATOM	2115	CA	TYR	A 2	5	-5.855	49.013	40.799	1.00 47.66	AAAA
ATOM	2116	CB	TYR	A 2	5	-5.654	49.142	39.287	1.00 47.44	AAAA
ATOM	2117	CG	TYR			-4.425	48.456	38.758	1.00 46.45	AAAA
ATOM	2118	CD1				-4.499	47.191	38.203	1.00 47.32	AAAA
ATOM	2119		TYR			-3.361	46.540	37.758	1.00 48.90	AAAA
						-3.179	49.062	38.853	1.00 46.91	AAAA
ATOM	2120		TYR							
ATOM	2121		TYR			-2.036	48.425	38.418	1.00 47.84	AAAA
ATOM	2122	CZ	TYR			-2.128	47.159	37.872	1.00 49.00	AAAA
MOTA	2123	OH	TYR			-0.986	46.495	37.474	1.00 48.37	AAAA
ATOM	2124	С	TYR	A 2	5	-6.714	50.168	41.283	1.00 45.62	AAAA
MOTA	2125	0	TYR	A 2	5	-7.922	50.013	41.451	1.00 44.54	AAAA
ATOM	2126	N	VAL	A 2	6	-6.111	51.323	41.521	1.00 44.41	AAAA
ATOM	2127	CA	VAL	A 2	6	-6.903	52.450	41.978	1.00 43.70	AAAA
ATOM	2128	CB	VAL	A 2	6	-6.212	53.218	43.097	1.00 42.36	AAAA
MOTA	2129	CG1	VAL			-7.141	54.296	43.609	1.00 42.26	AAAA
ATOM	2130		VAL			-5.821	52.276	44.214	1.00 41.19	AAAA
ATOM	2131	C	VAL			-7.160	53.401	40.826	1.00 43.81	AAAA
ATOM	2132	Ö	VAL			-6.242	53.742	40.078	1.00 44.14	AAAA
							53.822	40.691	1.00 43.47	AAAA
ATOM	2133	N	VAL			-8.414				AAAA
ATOM	2134	CA	VAL			-8.814	54.732	39.622	1.00 43.47	
ATOM	2135	CB	VAL			-10.331	54.620	39.347	1.00 43.09	AAAA
MOTA	2136		VAL			-10.623	54.973	37.915	1.00 41.26	AAAA
ATOM	2137	CG2	VAL	A 2	7	-10.813	53.211	39.654	1.00 43.35	AAAA
ATOM	2138	С	VAL	A 2	7	-8.458	56.172	39.995	1.00 43.37	AAAA
MOTA	2139	0	VAL	A 2	7	-8.559	56.572	41.153	1.00 43.56	AAAA
MOTA	2140	N	THR	A 2	8	-8.057	56.955	39.003	1.00 44.13	AAAA
ATOM	2141	CA	THR	A 2	8	-7.642	58.337	39.232	1.00 45.21	AAAA
ATOM	2142	CB	THR			-6.110	58.460	38.963	1.00 44.58	AAAA
MOTA	2143		THR			-5.391	57.780	39.996	1.00 43.34	AAAA
ATOM	2144		THR			-5.662	59.914	38.901	1.00 44.87	AAAA
ATOM	2145	C	THR			-8.374	59.410	38.409	1.00 46.02	AAAA
ATOM	2146	0	THR			-8.515	59.272	37.190	1.00 45.84	AAAA
		N	ASP			-8.830	60.472	39.088	1.00 46.74	AAAA
ATOM	2147								1.00 46.81	AAAA
ATOM	2148	CA	ASP			-9.495 0.496	61.612	38.434	1.00 46.81	AAAA
MOTA	2149	CB	ASP			-9.496	62.852	39.335		
MOTA	2150	CG	ASP			-10.485	62.757	40.474	1.00 46.49	AAAA
MOTA	2151		ASP			-10.352	63.553	41.436	1.00 45.43	AAAA
ATOM	2152	OD2	ASP			-11.394	61.901	40.400	1.00 46.00	
MOTA	2153	C	ASP	A 2	9	-8.679	61.941	37.196	1.00 46.74	AAAA
ATOM	2154	0	ASP	A 2	9	-7.491	62.237	37.281	1.00 45.31	AAAA
ATOM	2155	N	HIS	A 2	10	-9.332	61.897	36.048	1.00 49.01	AAAA
ATOM	2156	CA	HIS			-8.669	62.149	34.780	1.00 50.55	AAAA
ATOM	2157	СВ	HIS			-7.800	63.423	34.874	1.00 53.47	AAAA
ATOM	2158	CG	HIS			-8.590	64.675	35.140	1.00 54.70	
	2159		HIS			-9.911	64.947	34.992	1.00 55.44	AAAA
ATOM								35.655	1.00 55.04	AAAA
ATOM	2160		HIS			-8.021	65.820			
MOTA	2161		HIS			-8.957	66.740	35.819	1.00 55.62	
MOTA	2162		HIS			-10.113	66.235	35.425	1.00 55.09	
MOTA	2163	С	HIS			-7.856	60.885	34.450	1.00 49.39	
MOTA	2164	0	HIS	A 2	30	-6.623	60.867	34.489	1.00 47.23	
ATOM	2165	N	GLY	A 2	31	-8.626	59.831	34.167	1.00 49.17	
MOTA	2166	CA	GLY	A 2	31	-8.158	58.500	33.794	1.00 49.41	AAAA
ATOM	2167	С	GLY			-6.796	57.916	34.117	1.00 48.63	AAAA
ATOM	2168	Ō	GLY			-5.896	57.961	33.286	1.00 48.84	AAAA
ATOM	2169	N	SER			-6.640	57.330	35.300	1.00 47.97	
ATOM	2170	CA	SER			-5.365	56.722	35.656	1.00 47.51	
		J. 1	Jun	٠. ٤	-	0.505	551.25	23.300		•

ATOM	2171	CB	SER			-4.468	57.733	36.361	1.00 46.82	AAAA
ATOM	2172	OG	SER			-3.681	58.448	35.426	1.00 46.53	AAAA <b>AAAA</b>
ATOM ATOM	2173 2174	C 0	SER SER			-5.473 -6.166	55.472 55.447	36.510 37.519	1.00 47.75	AAAA
ATOM	2175	N	CYS			-4.772	54.430	36.089	1.00 49.15	AAAA
MOTA	2176	CA	CYS			-4.754	53.171	36.814	1.00 50.45	AAAA
ATOM	2177	С	CYS	Α	283	-3.417	53.123	37.556	1.00 51.60	AAAA
ATOM	2178	0	CYS			-2.359	53.056	36.926	1.00 51.15	AAAA
ATOM	2179	CB	CYS			-4.852	52.009	35.830	1.00 50.98 1.00 50.02	AAAA AAAA
ATOM ATOM	2180 2181	SG N	CYS VAL			-6.095 -3.466	52.210 53.161	34.510 38.888	1.00 53.40	AAAA
ATOM	2182	CA	VAL			-2.248	53.164	39.701	1.00 54.56	AAAA
ATOM	2183	CB	VAL	Α	284	-2.111	54.511	40.465	1.00 53.55	AAAA
ATOM	2184		VAL			-0.786	54.564	41.201	0.01 54.44	AAAA
ATOM	2185		VAL			-2.223	55.676	39.492	0.01 54.43	AAAA AAAA
ATOM ATOM	2186 2187	0	VAL VAL			-2.168 -3.197	52.012 51.480	40.708 41.129	1.00 55.82 1.00 54.87	AAAA
ATOM	2188	N	ARG			-0.934	51.636	41.068	1.00 56.92	AAAA
ATOM	2189	CA	ARG			-0.650	50.567	42.034	1.00 58.28	AAAA
ATOM	2190	CB	ARG			0.731	49.955	41.800	1.00 56.00	AAAA
ATOM	2191	CG	ARG			0.892	49.146	40.540	1.00 54.36	AAAA
ATOM ATOM	2192 2193	CD NE	ARG ARG			2.294 2.543	48.552 47.733	40.492 39.308	1.00 54.19 1.00 54.24	дада дада
ATOM	2194	CZ	ARG			1.737	46.763	38.881	1.00 54.72	AAAA
ATOM	2195		ARG			0.614	46.481	39.531	1.00 54.28	AAAA
ATOM	2196	NH2	ARG			2.067	46.055	37.813	1.00 54.90	AAAA
ATOM	2197	С			285	-0.653	51.167	43.426	1.00 60.13	AAAA
ATOM ATOM	2198 2199	O N			285 286	-1.372 0.189	50.717 52.176	44.316 43.606	1.00 60.34 1.00 63.23	AAAA AAAA
ATOM	2200	CA			286	0.290	52.878	44.880	1.00 68.59	AAAA
ATOM	2201	CB			286	1.720	52.797	45.419	1.00 68.77	AAAA
MOTA	2202	С			286	-0.113	54.332	44.635	1.00 71.05	AAAA
ATOM	2203	0			286	0.424	54.991	43.743 45.429	1.00 72.22 1.00 73.52	AAAA AAAA
ATOM ATOM	2204 2205	N CA			287 287	-1.055 -1.549	54.827 56.187	45.429	1.00 76.95	AAAA
ATOM	2206	C			287	-0.560	57.310	45.597	1.00 78.25	AAAA
ATOM	2207	0	CYS	A	287	0.518	57.073	46.141	1.00 78.83	AAAA
ATOM	2208	CB			287	-2.811	56.365	46.098	1.00 77.88	AAAA
ATOM ATOM	2209 2210	SG N			287 288	-3.685 -0.947	57.910 58.540	45.731 45.262	1.00 79.03 1.00 79.82	AAAA AAAA
ATOM	2211	CA			288	-0.097	59.694	45.503	1.00 82.39	AAAA
ATOM	2212	C	GLY	A	288	-0.110	60.207	46.932	1.00 84.46	AAAA
ATOM	2213	0			288	-1.039	59.924	47.693	1.00 84.48	AAAA
ATOM ATOM	2214 2215	N CA			. 289 : 289	0.925 1.065	60.968 61.530	47.291 48.633	1.00 85.18 1.00 86.18	дада дада
ATOM	2216	CB			289	2.120	62.626	48.632	1.00 87.20	AAAA
ATOM	2217	C			289	-0.257	62.079	49.145	1.00 86.14	AAAA
ATOM	2218	0			. 289	-1.015	61.372	49.803	1.00 86.92	AAAA
ATOM	2219	N			290	-0.528 -1.777	63.344 63.953	48.853 49.280	1.00 86.09 1.00 86.07	AAAA AAAA
ATOM ATOM	2220 2221	CA CB			. 290 . 290	-1.777	65.397	48.803	1.00 85.73	
ATOM	2222	c			290	-2.913	63.141	48.672	1.00 86.13	
ATOM	2223	0	ALA	A	290	-3.455	63.507	47.632	1.00 86.13	
ATOM	2224	N			291	-3.255	62.032	49.322	1.00 86.73	
ATOM ATOM	2225 2226	CA CB			291 291	-4.320 -3.998	61.154 60.644	48.855 47.452	1.00 87.25 1.00 86.99	
ATOM	2227	OG			291	-4.113	61.681	46.494	1.00 86.76	
ATOM	2228	C			291	-4.578	59.963	49.779	1.00 87.61	
MOTA	2229	0			291	-3.688	59.518	50.503	1.00 87.65	
ATOM	2230	N			292	-5.814	59.466	49.741	1.00 88.23 1.00 88.65	
ATOM ATOM	2231 2232	CA CB			. 292 . 292	-6.253 -6.973	58.319 58.785	50.537 51.795	1.00 88.86	
ATOM	2233	C.			292	-7.200	57.493	49.677	1.00 88.78	
ATOM	2234	0			292	-7.769	58.005	48.718	1.00 88.88	
ATOM	2235	N			293	-7.385	56.224	50.024	1.00 89.46	
MOTA	2236	CA			293	-8.256	55.355	49.242 48.740	1.00 90.15	
MOTA MOTA	2237 2238	·CB OG			A 293 A 293	-7.455 -6.789	54.151 53.500	49.806		
ATOM	2239	C			293	-9.513	54.874	49.969		
ATOM	2240	0	SER	. 7	293	-9.489	54.616	51.170		
ATOM	2241	N			294	-10.605	54.761	49.215		
MOTA MOTA	2242 2243	CA CB			A 294 A 294	-11.896 -12.815	54.307 55.505	49.729 49.951		
ATOM	2243	С			294	-12.520	53.332			
ATOM	2245	ō			A 294	-12.136	53.318			AAAA

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ATOM	2246	N	ALA A 295	-13.472	52.514	49.163	1.00 93.22	AAAA
ATOM	2247		ALA A 295	-14.132	51.546	48.280	1.00 93.92	AAAA
ATOM	2248		ALA A 295	-13.388	50.215	48.308	1.00 93.68	AAAA
ATOM	2249		ALA A 295	-15.588 -16.161	51.336 52.168	48.694 49.398	1.00 94.42 1.00 94.76	AAAA AAAA
ATOM ATOM	2250 2251		ALA A 295 ALA A 296	-16.161 -16.184	50.229	48.251	1.00 94.70	AAAA
ATOM	2252	CA	ALA A 296	-17.573	49.910	48.588	1.00 94.29	AAAA
ATOM	2253	CB	ALA A 296	-18.529	50.740	47.739	1.00 94.51	AAAA
ATOM	2254	С	ALA A 296	-17.856	48.427	48.390	1.00 94.06	AAAA
ATOM	2255	0	ALA A 296	-17.526	47.605	49.246	1.00 93.89	AAAA
ATOM	2256	N	GLY A 298	-18.307	50.902	44.075	1.00 92.42	AAAA
ATOM	2257	CA	GLY A 298	-17.990		43.666	1.00 92.62	AAAA
ATOM	2258	C	GLY A 298	-16.506	49.350	43.423	1.00 92.55 1.00 92.47	AAAA AAAA
ATOM	2259 2260	0	GLY A 298	-15.930 -15.886	48.328 50.337	43.801 42.784	1.00 92.47	AAAA
ATOM ATOM	2261	N CA	ALA A 299 ALA A 299	-14.460	50.285	42.490	1.00 91.80	AAAA
ATOM	2262	CB	ALA A 299	-14.170	51.001	41.169		AAAA
ATOM	2263	C	ALA A 299	-13.660	50.927	43.625	1.00 91.37	AAAA
MOTA	2264	0	ALA A 299	-14.223	51.384	44.621	1.00 91.52	AAAA
ATOM	2265	Ν.	ALA A 300	-12.342	50.948	43.471	1.00 90.47	AAAA
ATOM	2266	CA	ALA A 300	-11.468	51.540	44.470	1.00 88.67	AAAA
ATOM	2267	CB	ALA A 300	-10.360	50.566	44.838	1.00 88.66 1.00 87.65	AAAA AAAA
ATOM	2268	С	ALA A 300 ALA A 300	-10.879 -10.211	52.825 52.817	43.904 42.870	1.00 87.83	AAAA
ATOM ATOM	2269 2270	И О	ALA A 301	-11.145	53.931	44.583	1.00 86.76	AAAA
ATOM	2271	CA	ALA A 301	-10.648	55.226	44.150	1.00 86.51	AAAA
ATOM	2272	СВ	ALA A 301	-11.819	56.151	43.837	1.00 86.86	AAAA
ATOM	2273	С	ALA A 301	-9.768	55.842	45.229	1.00 86.08	AAAA
MOTA	2274	0	ALA A 301	-9.877	55.498	46.403	1.00 85.53	AAAA
ATOM	2275	N	CYS A 302	-8.892	56.753	44.826	1.00 85.34	AAAA
ATOM	2276	CA	CYS A 302	-8.011	57.406	45.772	1.00 84.99	AAAA AAAA
MOTA	2277	C	CYS A 302	-8.138 -7.741	58.917 59.494	45.650 44.641	1.00 85.77 1.00 86.77	AAAA
ATOM ATOM	2278 2279	O CB	CYS A 302 CYS A 302	-6.567	56.974	45.530	1.00 83.75	AAAA
ATOM	2280	SG	CYS A 302	-5.427	57.705	46.740	1.00 82.11	AAAA
ATOM	2281	N	SER A 303	-8.687	59.550	46.686	1.00 86.13	AAAA
ATOM	2282	CA	SER A 303	-8.896	60.997	46.697	1.00 87.21	AAAA
ATOM	2283	CB	SER A 303	-10.242	61.317	47.351	1.00 87.49	AAAA
ATOM	2284	OG	SER A 303	-11.312	60.738	46.619	1.00 87.38	AAAA
ATOM	2285	C	SER A 303	-7.788	61.814	47.366	1.00 87.79 1.00 87.82	AAAA AAAA
ATOM	2286	0	SER A 303	-6.608 -8.169	61.544 62.811	47.159 48.168	1.00 88.00	AAAA
ATOM ATOM	2287 2288	N CA	ALA A 304 ALA A 304	-7.199	63.687	48.834	1.00 87.92	AAAA
ATOM	2289	CB	ALA A 304	-7.571	65.155	48.570	1.00 87.01	AAAA
ATOM	2290	C	ALA A 304		63.471	50.342	1.00 88.23	AAAA
MOTA	2291	0	ALA A 304	-7.888	63.568	51.162	1.00 89.06	AAAA
ATOM	2292	N	CYS A 305	-5.711	63.195	50.687	1.00 87.62	AAAA
MOTA	2293	CA	CYS A 305	-5.282	62.973	52.066	1.00 86.43 1.00 85.77	AAAA AAAA
ATOM	2294	C	CYS A 305	-3.772	63.182 62.248	52.108	1.00 85.77	AAAA
ATOM ATOM	2295 2296	O CB	CYS A 305 CYS A 305	-3.003 -5.608	61.547	51.892 52.508	1.00 85.38	AAAA
ATOM	2297	SG	CYS A 305	-5.278	61.135	54.260	1.00 88.81	AAAA
ATOM	2298	N	CYS A 309	0.128	61.875	54.993	1.00 82.16	AAAA
ATOM	2299	CA	CYS A 309	-1.192	62.106	55.563	1.00 80.18	AAAA
ATOM	2300	C	CYS A 309	-1.348	61.201	56.777	1.00 79.05	AAAA
MOTA	2301	0	CYS A 309	-1.682	61.658	57.873	1.00 79.12	AAAA
ATOM	2302	CB	CYS A 309	-2.280	61.795	54.527	1.00 83.74	AAAA
ATOM	2303	SG	CYS A 309	-3.925	62.516	54.893	1.00 86.52 1.00 77.19	AAAA AAAA
ATOM ATOM	2304 2305	N CA	ALA A 310 ALA A 310	-1.107 -1.193	59.911 58.927	56.569 57.639	1.00 74.81	AAAA
ATOM	2305	CB	ALA A 310	-2.102	57.786	57.233	1.00 75.18	AAAA
ATOM	2307	C	ALA A 310	0.223	58.423	57.883	1.00 73.24	AAAA
ATOM	2308	ō	ALA A 310	0.736	58.516	58.998	1.00 74.31	AAAA
MOTA	2309	N	ALA A 311	0.850	57.904	56.831	1.00 70.33	AAAA
MOTA	2310	CA	ALA A 311	2.225	57.409	56.904	1.00 67.51	AAAA
ATOM	2311	CB	ALA A 311	2.507	56.769	58.263	1.00 67.02	AAAA
MOTA	2312	C	ALA A 311	2.530	56.415	55.790	1.00 65.87	AAAA AAAA
MOTA	2313	0	ALA A 311	2.277	55.213	55.919 54.693	1.00 66.24 1.00 63.07	AAAA
ATOM	2314 2315	N CA	VAL A 312 VAL A 312	3.070 3.438	56.935 56.122	54.693	1.00 63.07	AAAA
ATOM ATOM	2315	CB	VAL A 312 VAL A 312	2.844	56.691	52.248	1.00 59.91	AAAA
ATOM	2317		VAL A 312	3.455	56.006	51.041	1.00 59.90	AAAA
ATOM	2318		VAL A 312	1.347	56.501	52.253	1.00 60.52	AAAA
ATOM	2319	С	VAL A 312	4.955	56.119	53.449	1.00 58.75	AAAA
ATOM	2320	0	VAL A 312	5.59 <b>7</b>	57.166	53.540	1.00 57.85	AAAA

ATOM	2321	N	CYS A		5.520	54.929	53.280	1.00		AAAA
ATOM ATOM	2322 2323	CA C	CYS F		6.959 7.274	54.777 53.843	53.173 52.017	1.00		АААА АААА
ATOM	2324	0	CYS A		6.577	52.859	51.798	1.00		AAAA
ATOM	2325	CB	CYS A	A 313	7.539	54.194	54.472	1.00		AAAA
MOTA	2326	SG	CYS A		7.198	55.154	55.984	1.00		AAAA
ATOM ATOM	2327 2328	N CA	ASN A		8.328 8.745	54.161 53.340	51.277 50.153		53.19 52.45	AAAA AAAA
ATOM	2329	CB	ASN A		10.145	53.755	49.676		53.27	AAAA
ATOM	2330	CG	ASN Z		10.145	55.047	48.875		53.72	AAAA
MOTA	2331		ASN A		9.384	55.189	47.917		53.63	AAAA
ATOM ATOM	2332 2333	ND2 C	ASN A		11.0 <b>1</b> 6 8.794	55.988 51.878	49.251 50.574		51.95 51.98	AAAA AAAA
ATOM	2333	0	ASN I		9.110	51.569	51.716		52.48	AAAA
ATOM	2335	N		A 315	8.472	50.982	49.653		50.49	AAAA
ATOM	2336	CA		A 315	8.545	49.566	49.953		49.28	AAAA
ATOM	2337	0		A 315	9.983	49.170 49.992	49.692 49.856		48.34 47.88	AAAA AAAA
ATOM ATOM	2338 2339	N		A 315 A 316	10.871 10.231	47.934	49.282		48.48	AAAA
ATOM	2340	CA		A 316	11.602	47.524	49.008		49.65	AAAA
ATOM	2341	CB		A 316	11.996	46.248	49.801		48.77	AAAA
ATOM	2342	CG2		A 316	13.404	45.794 46.542	49.408 51.299		47.91 48.94	AAAA AAAA
ATOM ATOM	2343 2344			A 316 A 316	11.965 12.522	45.430	52.154		48.99	AAAA
ATOM	2345	C		A 316	11.859	47.270	47.527		50.50	AAAA
ATOM	2346	0		A 316	11.010	46.726	46.817		52.02	AAAA
ATOM	2347	N		A 317	13.037	47.677	47.068		50.62 50.71	АААА АААА
ATOM ATOM	2348 2349	CA C		A 317 A 317	13.411 12.831	47.463 48.433	45.681 44.671		50.75	AAAA
ATOM	2350	ō		A 317	13.347	48.564	43.559		49.11	AAAA
MOTA	2351	N		A 318	11.761	49.119	45.055		51.87	AAAA
MOTA	2352	CA		A 318	11.109	50.060	44.159		51.98	AAAA AAAA
ATOM ATOM	2353 2354	CB CG2		A 318 A 318	9.907 8.955	49.389 48.768	43.428 44.442		51.42 51.57	AAAA
ATOM	2355			A 318	9.190	50.415	42.545		51.51	AAAA
MOTA	2356			A 318	8.030	49.846	41.754		51.32	AAAA
ATOM	2357	C		A 318	10.633	51.318	44.875		52.30 51.85	AAAA AAAA
ATOM ATOM	2358 2359	O N		A 318 A 319	9.498 11.509	51.390 52.314	45.345 44.951		52.78	AAAA
ATOM	2360	CA		A 319	11.129	53.554	45.595		52.93	AAAA
MOTA	2361	С		A 319	12.304	54.400	46.032		53.04	AAAA
ATOM ATOM	2362 2363	о И		A 319 A 320	12.169 13.449	55.617 53.756	46.170 46.252		53.27 52.45	AAAA AAAA
ATOM	2364	CA		A 320	14.667	54.437	46.686		51.24	AAAA
MOTA	2365	CB		A- 320		55.611	47.610		51.15	AAAA
ATOM	2366	CG		A 320		55.934	48.692		52.94 54.57	AAAA AAAA
ATOM ATOM	2367 2368	CD OE1		A 320 A 320		55.115 55.283	49.938 50.537		54.57	AAAA
ATOM	2369			A 320		54.308	50.311	1.00	54.31	AAAA
MOTA	2370	С		A 320		53.446	47.369		50.93	AAAA
ATOM ATOM	2371 2372	O N		A 320 A 321		53.819 52.166	47.938 47.297		50.83 50.07	AAAA AAAA
MOTA	2373	CA		A 321		51.123	47.882		47.73	AAAA
ATOM	2374	CB		A 321		50.297	48.875	1.00	45.73	AAAA
MOTA	2375	CG		A 321		51.090	50.039		45.14	AAAA
ATOM ATOM	2376 2377			A 321 A 321		51.804 51.104	49.937 51.247		44.23	AAAA AAAA
ATOM	2378			A 321		52.509	51.018		44.34	AAAA
MOTA	2379			A 321		51.808	52.332		43.49	AAAA
ATOM	2380	CZ		A 321		52.510	52.220		44.28 47.46	AAAA AAAA
ATOM ATOM	2381 2382	C		A 321 A 321			46.749 46.782		47.78	AAAA
ATOM	2383	N		A 322			45.732		46.08	AAAA
ATOM	2384	CA		A 322		49.339	44.556		45.59	AAAA
ATOM	2385	CB		A 322			43.455		46.82 46.39	AAAA AAAA
ATOM ATOM	2386 2387	CG CD		A 322			42.162 41.124		46.39	AAAA AAAA
ATOM	2388	CE		A 322			39.829		46.34	AAAA
MOTA	2389	NZ	LYS	A 322	18.883	48.725	40.037		46.38	AAAA
ATOM	2390	C		A 322			44.849		43.91	AAAA .
ATOM ATOM	2391 2392	O N		A 322 A 323			45.167 44.751		42.18	AAAA AAAA
ATOM	2393	CA		A 323			44.994		41.93	AAAA
ATOM	2394	CB	ASP	A 323	20.685	47.977	44.493		42.94	AAAA
ATOM	2395	CG	ASP	A 323	20.720	48.147	42.988	0.01	42.36	AAAA

ATOM	2396	OD1	ASP	Δ	323	20.640	47.128	42.271	0.01	42.40	AA	AA/
										42.36		AA
MOTA	2397	OD2	ASP	А	323	20.818	49.300	42.521				
ATOM	2398	С	ASP	Α	323	19.389	47.117	46.463	1.00	41.03	A.A	AA.
								47.009		42.19	ממ	<b>AA</b>
MOTA	2399	0	ASP			20.463	46.869					
ATOM	2400	N	SER	А	324	18.220	47.072	47.094	1.00	39.41	A.A	<b>AA</b>
MOTA	2401	CA	SER			18.095	46.711	48.504	1 00	37.10	ממ	AA
MOTA	2402	CB	SER	Α	324	17.260	47.756	49.248	1.00	37.83	A.A	<b>AA</b>
MORE	2403	OG	SER	7.	324	17.870	49.030	49.213	1 00	38.03	ממ	AA.
ATOM		-										
ATOM	2404	C	SER	Α	324	17.418	45.348	48.636	1.00	35.39	AA	AA
ATOM	2405	0	SER	7	324	16.188	45.242	48.537	1 00	34.24	AA	AA
ATOM	2406	N	LEU	A	325	18.220	44.315	48.886	1.00	33.17	AA	\AA
ATOM	2407	CA	LEU	Δ	325	17.697	42.962	49.009	1.00	31.03	A.A	AAA
ATOM	2408	CB	LEU	А	325	18.835	41.935	48.969		29.74	AP	₹ <b>A</b> A
ATOM	2409	CG	LEU	А	325	19.256	41.553	47.546	1.00	30.33	A.P	AA.
MOTA	2410	CDI	LEU	А	325	20.174	42.617	46.971	1.00	32.29	AA	<b>AA</b>
ATOM	2411	CD2	LEU	А	325	19.957	40.231	47.557	1.00	30.55	AΑ	<b>AA</b>
												AA
ATOM	2412	С	LEU	А	323	16.811	42.663	50.202		29.18		
ATOM	2413	0	LEU	Α	325	16.126	41.646	50.206	1.00	30.85	ΑÆ	\AA
	2414	M	SER			16.781	43.534	51.201	1 00	26.79	70.70	AAA
ATOM		N										
ATOM	2415	CA	SER	А	326	15.964	43.230	52.368	1.00	26.21	A.P	AA/
ATOM	2416	CB	SER	70	326	16.536	41.976	53.047	1 00	22.34	AA	AA.
ATOM	2417	OG	SER	А	326	15.992	41.768	54.326	1.00	15.09	AA	AA.
ATOM	2418	С	SER	Δ	326	15.848	44.353	53.387	1.00	27.74	AA	AA
ATOM	2419	0	SER	Α	326	16.495	45.391	53.251	1.00	28.20	A.A	AA.
ATOM	2420	N	ILE	Δ	327	14.993	44.148	54.391	1.00	29.40	AA	\AA
ATOM	2421	CA	ILE	A	327	14.830	45.116	55.461	1.00	31.14	A.A	AA/
ATOM	2422	CB	ILE	Δ	327	13.837	44.626	56.545	1.00	31.16	A.P.	AA/
ATOM	2423	CG2	ILE	Α	327	14.041	45.391	57.838	1.00	34.07	A,P	λAA
MOTA	2424	CG1	ILE	Δ	327	12.397	44.847	56.075	1.00	31.46	A.P.	<b>XA</b> A
ATOM	2425	CDI	ILE	А	327	12.059	46.289	55.718	1.00	29.11	AP	<b>AA</b> A
ATOM	2426	С	ILE	Α	327	16.245	45.171	55.998	1.00	32.90	A.P	AA.
ATOM	2427	0	ILE	А	321	16.862	44.132	56.258	1.00	30.25		<b>AA</b> A
ATOM	2428	N	ASN	Α	328	16.759	46.388	56.148	1.00	36.73	A.P	<b>XA</b> A
								56.562		39.78	א ת	AA.
ATOM	2429	CA	ASN			18.142	46.572					
MOTA	2430	CB	ASN	Α	328	18.887	47.328	55.472	1.00	41.31	AΑ	AA.
ATOM	2431	CG	ASN			20.178	46.670	55.123		41.86	. 70.72	AA
MOTA	2432	OD1	ASN	Α	328	20.988	46.404	55.998	1.00	43.06	A.P	<b>AA</b> A
ATOM	2433	MD2	ASN	70.	300	20.367	46.389	53.842	1 00	41.32	AZ	AA
ATOM	2434	С	ASN	Α	328	18.492	47.209	57.888	1.00	40.89	A.F	ХAА
ATOM	2435	0	ASN	Α	328	17.839	48.145	58.350	1.00	40.12	A.P.	AAA
MOTA	2436	И	ALA	А	329	19.581	46.692	58.453	1.00	42.61	r.	AAA
ATOM	2437	CA	ALA	Α	329	20.127	47.130	59.730	1.00	44.69	A.P	AA.
ATOM	2438	CB	ALA	А	329	21.269	46.221	60.133	1.00	45.55		<b>AA</b> A
ATOM	2439	C	ALA	Α	329	20.625	48.557	59.674	1.00	45.26	A.P	AA.
	2440	0	ALA			21.672	48.825	59.097	1 00	44.81	73.72	AAA
ATOM												
ATOM	2441	N	THR	Α	330	19.881	49.462	60.298	1.00	46.67	A.F	AA.
ATOM	2442	CA	THE	Δ	330	20.262	50.860	60.312	1 00	48.07	74.72	AAA
ATOM	2443	CB	THR	Α	330	21.509	51.086	61.203	1.00	48.18	· AA	AA.
ATOM	2444	OG1	THR	Δ	330	21.249	50.595	62.524	0.01	48.02	A	AA.
MOTA	2445	CG2	THR	А	330	21.849	52.568	61.281	0.01	48.03	AA	AA
ATOM	2446	С	THR	Α	330	20.573	51.248	58.868	1.00	49.13	AZ	AAA
												AAA
ATOM	2447	0			330	21.690	51.654	58.529		49.74		
ATOM	2448	И	ASN	Α	331	19.566	51.094	58.019	1.00	49.19	A.F	AA.
ATOM	2449	CA	ASN			19.676	51.417	56.610		49.37	73.72	AA.
ATOM	2450	CB	ASN	А	331	20.489	50.352	55.903		48.91		λAA
ATOM	2451	CG	ASN	Α	331	21.958	50.488	56.175	1.00	49.77	A.F	AAA
										49.32		AAA
MOTA	2452		ASN			22.610	51.377	55.641				
ATOM	2453	ND2	ASN	Α	331	22.490	49.619	57.023	1.00	50.02	A.F	AA
			ASN			18.275	51.471	56.043		50.07		AΑ
MOTA	2454	С										
ATOM	2455	0	ASN	Α	331	17.777	52.530	55.667	1.00	50.99	A.F	<b>AA</b> A
ATOM	2456	N			332	17.624	50.324	55.981	1.00	49.98	ДД	AAA
ATOM	2457	CA	ALA	A	332	16.274	50.323	55.477	1.00	49.02		AA,
ATOM	2458	CB	A.TA	Д	332	15.816	48.902	55.179	1.00	48.69	AF	AAA
ATOM	2459	С	ALA	А	332	15.425	50.951	56.573		48.34		AA.
ATOM	2460	0	AJ.A	Α	332	14.406	51.561	56.283	1.00	49.27	A.F	$AA_{\ell}$
												AAA
ATOM	2461	N			333	15.868	50.828	57.825		47.00		
MOTA	2462	CA	LYS	Α	333	15.134	51.372	58.973	1.00	46.67	A.F	AAA
												AAA
MOTA	2463	CB			333	15.898	51.092	60.265		45.61		
ATOM	2464	CG	LYS	Α	333	16.500	49.711	60.342	1.00	46.01	AF	AΑ
										45.97		AAA
ATOM	2465	CD			333	15.528	48.609	59.961				
ATOM	2466	CE	LYS	Α	333	14.313	48.571	60.860	1.00	45.53	A.F	AΑΑ
ATOM	2467	NZ			333	13.437	49.741	60.609		46.06	AZ	AAA
MOTA	2468	С	LYS	Α	333	14.786	52.871	58.894	1.00	47.11		AAA
ATOM	2469	ō			333	14.929	53.631	59.862		45.93	AZ	AAA
ATOM	2470	N	HIS	Α	334	14.331	53.283	57.721	1.00	47.34	AF	AAP

ATOM	2471	CA	HIS A	334	13.909	54.647	57.477	1.00 47.23	AAAA
ATOM	2472	CB	HIS A	334	13.988	54.943	55.967	1.00 48.34	AAAA
ATOM	2473	CG	HIS A	. 334	13.991	56.403	55.612	1.00 50.17	AAAA
MOTA	2474	CD2	HIS A	334	12.975	57.264	55.355	1.00 50.74	AAAA
							55.406	1.00 50.99	AAAA
MOTA	2475		HIS A		15.153	57.117			
MOTA	2476	CEl	HIS A	. 334	14.854	58.349	55.031	1.00 50.42	AAAA
ATOM	2477	NE2	HIS A	334	13.539	58.464	54.991	1.00 51.06	AAAA
					12.449	54.591	57.956	1.00 46.12	AAAA
ATOM	2478	C	HIS A						
ATOM	2479	0	HIS A	334	11.937	55.539	58.536	1.00 46.22	AAAA
ATOM	2480	N	PHE A	335	11.807	53.445	57.733	1.00 44.86	AAAA
						53.230	58.113	1.00 44.82	AAAA
ATOM	2481	CA	PHE A		10.414				
ATOM	2482	CB	PHE A	335	10.046	51.738	58.082	1.00 41.96	AAAA
ATOM	2483	CG	PHE A	335	10.470	51.009	56.834	1.00 38.99	AAAA
ATOM	2484		PHE A		11.773	50.555	56.683	1.00 37.04	AAAA
ATOM	2485	CD2	PHE A	335	9.560	50.741	55.824	1.00 38.75	AAAA
ATOM	2486	CE1	PHE A	335	12.160	49.840	55.544	1.00 35.29	AAAA
ATOM	2487	CE2	PHE A	1 335	9.947	50.024	54.679	1.00 38.62	AAAA
								1.00 35.29	AAAA
MOTA	2488	CZ	PHE P		11.247	49.575	54.545		
MOTA	2489	С	PHE P	335	10.128	53.749	59.516	1.00 47.07	AAAA
ATOM	2490	0	PHE A	335	10.105	52.977	60.472	1.00 48.59	AAAA
							59.641	1.00 48.94	AAAA
MOTA	2491	N	LYS F		9.899	55.050			
ATOM	2492	CA	LYS F	336	9.619	55.659	60.937	1.00 49.82	AAAA
ATOM	2493	CB	LYS A	336	9.403	57.168	60.778	1.00 51.03	AAAA
					10.603	57.915	60.220	0.01 50.18	AAAA
ATOM	2494	CG	LYS A						
ATOM	2495	CD	LYS A	A 336	10.319	59.406	60.116	0.01 49.94	AAAA
ATOM	2496	CE	LYS A	336	11.518	60.162	59.566	0.01 49.59	AAAA
							59.467	0.01 49.48	AAAA
ATOM	2497	.NZ	LYS A		11.255	61.624			
ATOM	2498	C	LYS A	336	8.391	55.034	61.567	1.00 50.01	AAAA
ATOM	2499	0	LYS A	336	8.436	53.915	62.039	1.00 50.30	AAAA
					7.292	55.766	61.582	1.00 51.95	AAAA
ATOM	2500	И	ASN A						
ATOM	2501	CA	ASN A	A 337	6.065	55.251	62.165	1.00 54.58	AAAA
ATOM	2502	CB	ASN A	A 337	5.367	56.338	63.002	1.00 60.00	AAAA
ATOM	2503	CG	ASN 7		6.267	56.930	64.085	1.00 65.33	AAAA
MOTA	2504		ASN A		7.354	57.423	63.789	1.00 65.46	AAAA
ATOM	2505	ND2	ASN A	A 337	5.815	56.906	65.336	1.00 70.95	AAAA
ATOM	2506	С	ASM 2	A 337	5.149	54.822	61.024	1.00 53.14	AAAA
								1.00 53.44	AAAA
MOTA	2507	0		A 337	3.925	54.903	61.130		
MOTA	2508	N	CYS 7	8EE A	5.744	54.366	59.929	1.00 50.64	AAAA
ATOM	2509	CA	CYS 2	A 338	4.964	53.948	58.775	1.00 48.22	AAAA
ATOM	2510	C		A 338	3.748	53.141	59.190	1.00 46.34	AAAA
ATOM	2511	0	CYS	A 338	3.841	52.236	60.010	1.00 44.39	AAAA
ATOM	2512	CB	CYS	A 338	5.827	53.123	57.825	1.00 49.28	AAAA
ATOM	2513	SG	CYS	A 338	7.465	53.851	57.524	1.00 51.94	AAAA
									AAAA
ATOM	2514	N	THR .	A 339	2.598	53.488	58.630	1.00 45.15	
ATOM	2515	CA	THR :	A 339	1.369	52.774	58.933	1.00 44.67	AAAA
ATOM	2516	CB	THR	A 339	0.234	53.741	59.299	1.00 45.64	AAAA
						54.783	58.319	1.00 46.78	AAAA
ATOM	2517		THR .		0.167				
ATOM	2518	CG2	THR .	A 339	0.466	54.330	60.685	1.00 45.17	AAAA
MOTA	2519	C	THR .	A 339	0.959	51.932	57.725	1.00 43.18	AAAA
ATOM	2520	Ō		A 339	0.096	51.050	57.814	1.00 43.48	AAAA
ATOM	2521	N	SER	A 340	1.581				AAAA
ATOM	2522	CA	SER	A 340	1.310	51.448	55.392	1.00 38.11	AAAA
ATOM	2523	CB		A 340	0.076	51.973	54.668	1.00 39.38	AAAA
								1.00 40.07	AAAA
ATOM	2524	OG		A 340	0.411				AAAA
MOTA	2525	С	SER	A 340	2.523	51.566			
MOTA	2526	0	SER	A 340	3.199	52.593	54.476	1.00 36.03	AAAA
ATOM	2527	N		A 341	2.807	50.507	53.763	1.00 35.59	AAAA
									AAAA
ATOM	2528	CA		A 341	3.954	50.529		1.00 34.72	
ATOM	2529	CB	ILE	A 341	4.945	49.442	53.272		AAAA
MOTA	2530		2 ILE	A 341	6.127	49.475	52.338	1.00 33.33	AAAA
			LILE						AAAA
MOTA	2531				5.410				
ATOM	2532	CD:	LILE		6.466	48.722			AAAA
ATOM	2533	С	ILE	A 341	3.597	50.382	51.420	1.00 34.76	AAAA
MOTA	2534	ō		A 341	3.153				AAAA
MOTA	2535	N		A 342	3.780				AAAA
MOTA	2536	CA	SER	A 342	3.517	51.472	49.241	1.00 33.55	AAAA
ATOM	2537			A 342	3.590				AAAA
MOTA	2538			A 342	2.610				AAAA
MOTA	2539	С	SER	A 342	4.625	50.633	48.638	1.00 33.68	AAAA
ATOM	2540			A 342	5.754				AAAA
									AAAA
MOTA	2541	N		A 343	4.304				
ATOM	2542	CA	GLY	A 343	5.300	48.493	47.729		AAAA
ATOM	2543			A 343	5.371				AAAA
									AAAA
ATOM	2544			A 343	4.461				
ATOM	2545	N	ASP	A 344	6.446	46.420	48.263	1.00 33.58	AAAA

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ATOM	2546	CA	ASP A	344	6.586	45.149	48.943	1.00 33.45	AAAA
ATOM	2547	CB	ASP A	344	6.799	43.980	47.941	1.00 34.67	AAAA
MOTA	2548	CG	ASP A	344	7.574	44.374	46.655	1.00 37.89	AAAA
ATOM	2549		ASP A		8.829	44.328	46.636	1.00 38.53	AAAA
ATOM	2550		ASP A		6.917	44.708	45.640	1.00 35.87	AAAA
ATOM	2551	C	ASP A		7.699	45.201	49.986	1.00 33.21	AAAA
ATOM	2552	0	ASP A		8.530	46.116	49.978	1.00 34.09	AAAA AAAA
ATOM	2553	N	LEU A		7.676	44.241	50.912	1.00 30.83 1.00 27.52	AAAA
ATOM	2554	CA	LEU A		8.680 8.052	44.133 44.303	51.969 53.357	1.00 27.52	AAAA
ATOM	2555	CB CG	LEU A		7.558	45.650	53.877	1.00 27.29	AAAA
ATOM ATOM	2556 2557		LEU A		6.052	45.633	53.942	1.00 27.23	AAAA
ATOM	2558		LEU A		8.131	45.912	55.264	1.00 25.73	AAAA
ATOM	2559	C	LEU A		9.328	42.758	51.919	1.00 25.60	AAAA
ATOM	2560	ō	LEU A		8.641	41.748	51.791	1.00 24.88	AAAA
ATOM	2561	N	HIS A		10.649	42.711	52.007	1.00 24.13	AAAA
ATOM	2562	CA	HIS A		11.334	41.423	52.017	1.00 24.67	AAAA
ATOM	2563	CB	HIS A		12.229	41.213	50.780	1.00 21.99	AAAA
ATOM	2564	CG	HIS A	346	11.601	41.589	49.471	1.00 21.05	AAAA
MOTA	2565	CD2	HIS A	346	10.548	42.384	49.175	1.00 19.73	AAAA
ATOM	2566	ND1	HIS A	346	12.163	41.239	48.262	1.00 20.79	AAAA
ATOM	2567		HIS A		11.492	41.810	47.282	1.00 18.08	AAAA
MOTA	2568		HIS A		10.507	42.512	47.809	1.00 20.27	AAAA
ATOM	2569	С	HIS A		12.246	41.366	53.247	1.00 24.57	AAAA
ATOM	2570	0	HIS A		12.936	42.329	53.541	1.00 26.73	AAAA
ATOM	2571	N	ILE A		12.243	40.257	53.975	1.00 22.65 1.00 20.96	AAAA AAAA
MOTA	2572	CA	ILE A		13.154	40.116	55.107	1.00 20.96	AAAA
ATOM	2573	CB	ILE A		12.435	40.043	56.451 57.544	1.00 20.20	AAAA
ATOM ATOM	2574 2575	CG2 CG1			13.439 11.311	41.082	56.506	1.00 10.30	AAAA
ATOM	2576		ILE A		10.428	40.991	57.736	1.00 16.73	AAAA
ATOM	2577	C	ILE A		13.899	38.807	54.896	1.00 19.75	AAAA
ATOM	2578	ō	ILE A		13.392	37.745	55.161	1.00 19.25	AAAA
ATOM	2579	N	LEU A		15.115	38.895	54.405	1.00 20.87	AAAA
ATOM	2580	CA	LEU A	348	15.903	37.707	54.137	1.00 22.41	AAAA
ATOM	2581	CB	LEU A	348	16.563	37.842	52.764	1.00 21.31	AAAA
MOTA	2582	CG	LEU A		15.719	38.442	51.654	1.00 17.67	AAAA
ATOM	2583		LEU A		16.607	38.846	50.524	1.00 15.88	AAAA
MOTA	2584		LEU A		14.692	37.444	51.223	1.00 18.16	AAAA
ATOM	2585	С	LEU A		16.991	37.489	55.182	1.00 23.10 1.00 22.89	АААА АААА
ATOM	2586	0	LEU A		17.299 17.581	38.384 36.282	55.955 55.210	1.00 22.89	AAAA
ATOM ATOM	2587 2588	N CD	PRO A		17.149	35.086	54.464	1.00 24.43	AAAA
ATOM	2589	CA	PRO A		18.648	35.929	56.148	1.00 26.15	AAAA
ATOM	2590	CB	PRO A		19.192	34.643	55.557	1.00 24.99	AAAA
ATOM	2591	CG	PRO A		17.936	33.979	55.141	1.00 26.14	AAAA
ATOM	2592	С	PRO A	349	19.708	37.010	56.256	1.00 27.58	AAAA
ATOM	2593	0	PRO A	349	20.121	37.371	57.357	1.00 27.79	AAAA
ATOM	2594	N	VAL A		20.131	37.536	55.111	1.00 28.28	AAAA
ATOM	2595	CA	VAL A		21.155	38.575	55.097	1.00 29.85	AAAA
ATOM	2596	CB	VAL A		21.292	39.242	53.673	1.00 31.11	AAAA
MOTA	2597		VAL A		20.125	40.187	53.395	1.00 30.25	AAAA AAAA
ATOM	2598		VAL A		22.616	39.987 39.656	53.571	1.00 29.62 1.00 28.88	AAAA
ATOM	2599	C	VAL		20.886 21.786	40.073	56.141 56.854	1.00 29.56	AAAA
ATOM ATOM	2600 2601	И	VAL A		19.641	40.073	56.242	1.00 28.53	AAAA
ATOM	2602	CA	ALA A		19.292	41.134	57.185	1.00 30.16	AAAA
ATOM	2603	СВ	ALA A		17.785	41.205	57.350	1.00 28.34	AAAA
ATOM	2604	C	ALA A		19.955	40.941	58.541	1.00 31.59	AAAA
ATOM	2605	ō	ALA A		20.629	41.842	59.050	1.00 32.54	AAAA
ATOM	2606	N	PHE A		19.781	39.755	59.111	1.00 32.06	AAAA
ATOM	2607	CA	PHE F		20.319	39.449	60.430	1.00 31.71	AAAA
ATOM	2608	CB	PHE A	352	19.421	38.401	61.080	1.00 28.75	AAAA
ATOM	2609	CG	PHE P	352	17.966	38.747	60.998	1.00 29.08	AAAA
MOTA	2610	CD1	PHE F	352	17.113	38.050	60.151	1.00 29.43	AAAA
ATOM	2611		PHE F		17.453	39.818	61.725	1.00 29.18	AAAA
MOTA	2612		PHE A		15.770	38.415	60.023	1.00 27.79	AAAA
ATOM	2613		PHE A		16.113	40.194	61.606	1.00 29.36	АААА АААА
ATOM	2614	CZ	PHE A		15.269	39.489	60.751	1.00 28.07 1.00 32.70	AAAA
ATOM	2615	C	PHE A		21.781 22.463	39.015 39.123	60.436 61.456	1.00 32.70	AAAA
MOTA MOTA	2616 2617	И	ARG A		22.463	38.550	59.289	1.00 34.30	AAAA
ATOM	2618	CA	ARG A		23.649	38.101	59.174	1.00 36.18	AAAA
ATOM	2619	CB	ARG A		23.755	36.983	58.138	1.00 38.21	AAAA
ATOM	2620	CG	ARG A		23.058	35.687	58.527	1.00 43.11	AAAA
				-					

ATOM	2621	CD	ARG A	353	23.334	34.600	57.492	1.00 47.02	AAAA
ATOM	2622	NE	ARG A	353	23.358	33.260	58.084	1.00 52.71	AAAA
ATOM	2623	CZ	ARG A	353	24.189	32.868	59.057	1.00 55.01	AAAA
ATOM	2624	NH1	ARG A	353	25.083	33.712	59.570	1.00 54.88	AAAA
ATOM	2625		ARG A		24.128	31.623	59.519	1.00 55.46	AAAA
ATOM	2626	C	ARG A		24.612	39.219	58.795	1.00 36.63	AAAA
ATOM	2627	0	ARG A		25.816	39.097	58.996	1.00 36.71	AAAA
	2628	N	GLY A		24.075	40.312	58.266	1.00 37.39	AAAA
ATOM							57.832	1.00 37.72	AAAA
ATOM	2629	CA	GLY A		24.914	41.408			AAAA
ATOM	2630	С	GLY A		25.252	41.128	56.383	1.00 39.16	
ATOM	2631	0	GLY A		24.891	40.070	55.872	1.00 39.55	AAAA
ATOM	2632	И	ASP A		25.920	42.061	55.711	1.00 41.10	AAAA
ATOM	2633	CA	ASP A	355	26.306	41.870	54.309	1.00 43.01	AAAA
ATOM	2634	CB	ASP A	355	25.185	42.306	53.362	1.00 42.70	AAAA
ATOM	2635	CG	ASP A	355	25.474	41.937	51.923	1.00 43.61	AAAA
MOTA	2636	OD1	ASP A	355	25.662	40.737	51.624	1.00 43.53	AAAA
ATOM	2637		ASP A		25.519	42.848	51.085	1.00 44.20	AAAA
ATOM	2638	C	ASP A		27.565	42.651	53.976	1.00 43.78	AAAA
ATOM	2639	ō	ASP A		27.517	43.867	53.800	1.00 44.50	AAAA
ATOM	2640	N	SER A		28.683	41.939	53.870	1.00 45.03	AAAA
								1.00 46.10	AAAA
ATOM	2641	CA	SER A		29.978	42.553	53.587		
ATOM	2642	CB	SER F		31.088	41.744	54.266	1.00 46.34	AAAA
ATOM	2643	OG	SER A		30.887	41.679	55.667	0.01 46.23	AAAA
MOTA	2644	С	SER A	356	30.303	42.721	52.101	1.00 46.38	AAAA
ATOM	2645	0	SER A	356	31.413	42.425	51.654	1.00 45.67	AAAA
MOTA	2646	N	PHE A	357	29.327	43.206	51.345	1.00 46.19	AAAA
ATOM	2647	CA	PHE A	357	29.492	43.433	49.922	1.00 46.13	AAAA
ATOM	2648	CB	PHE A	357	29.004	42.221	49.123	1.00 45.79	AAAA
ATOM	2649	CG	PHE A	357	29.748	40.950	49.427	0.01 45.98	AAAA
ATOM	2650	CD1			31.106	40.838	49.147	0.01 46.04	AAAA
ATOM	2651		PHE A		29.091	39.866	50.000	0.01 46.03	AAAA
ATOM	2652	CE1		357	31.800	39.663	49.432	0.01 46.07	AAAA
			PHE A		29.776	38.686	50.289	0.01 46.07	AAAA
ATOM	2653						50.005	0.01 46.06	AAAA
ATOM	2654	CZ		357	31.132	38.586			AAAA
ATOM	2655	С		A 357	28.642	44.642	49.607	1.00 46.59	
ATOM	2656	0		A 357	28.840	45.311	48.601	1.00 46.36	AAAA
ATOM	2657	N		A 358	27.688	44.904	50.496	1.00 48.40	AAAA
ATOM	2658	CA		A 358	26.761	46.032	50.381	1.00 49.74	AAAA
ATOM	2659	CB	THR A	A 358	25.304	45.547	50.398	1.00 49.89	AAAA
ATOM	2660	OG1	THR A	A 358	24.458	46.545	49.821	1.00 50.66	AAAA
ATOM	2661	CG2	THR A	A 358	24.856	45.276	51.831	1.00 50.72	AAAA
ATOM	2662	С	THR A	A 358	26.992	46.935	51.596	1.00 49.91	AAAA
ATOM	2663	0	THR 2	A 358	26.287	47.926	51.817	1.00 49.11	AAAA
ATOM	2664	N		A 359	27.998	46.552	52.375	1.00 49.96	AAAA
ATOM	2665	CA		A 359	28.394	47.255	53.575	1.00 49.75	AAAA
ATOM	2666	СВ		A 359	29.119	48.547	53.221	1.00 51.53	AAAA
ATOM	2667	CG		A 359	30.573	48.346	52.936	1.00 53.85	AAAA
ATOM	2668		HIS		31.612	48.086	53.765	1.00 54.00	AAAA
			HIS		31.092			1.00 55.08	AAAA
ATOM	2669					48.101	51.713	1.00 55.44	AAAA
ATOM	2670		HIS		32.388				AAAA
ATOM	2671			A 359	32.728	47.937		1.00 55.36 1.00 48.81	AAAA
ATOM	2672	C		A 359	27.263	47.532	54.530		
ATOM	2673	0		A 359	26.965	48.681		1.00 49.35	AAAA
ATOM	2674	N		A 360	26.630	46.458	54.980	1.00 46.71	AAAA
MOTA	2675	CA		A 360	25.548	46.574		1.00 45.14	AAAA
ATOM	2676	CB	THR	A 360	24.223	46.012	55.407	1.00 45.92	AAAA
ATOM	2677	OG1	THR	A 360	23.611	46.939	54.503	1.00 45.44	AAAA
ATOM	2678	CG2	THR	A 360	23.290	45.749	56.585	1.00 45.78	AAAA
ATOM	2679	С	THR	A 360	25.877	45.774	57.169	1.00 43.06	AAAA
ATOM	2680	0	THR	A 360	26.137	44.582	57.086	1.00 41.66	AAAA
MOTA	2681	N		A 361	25.867	46.423		1.00 41.54	AAAA
ATOM	2682	CD		A 361	25.605	47.845		1.00 39.84	AAAA
ATOM	2683	CA		A 361	26.168	45.688			AAAA
ATOM	2684	CB		A 361	26.242	46.795		1.00 39.58	AAAA
									AAAA
MOTA	2685	CG		A 361	25.278	47.814			AAAA
MOTA	2686	C		A 361	25.010	44.736		1.00 39.49	AAAA
MOTA	2687	0		A 361	23.931	44.900		1.00 39.19	
MOTA	2688	N		A 362	25.218	43.715			AAAA
ATOM	2689	CD		A 362	26.405	43.341			AAAA
ATOM	2690	CA	PRO	A 362	24.106	42.803		1.00 39.26	AAAA
ATOM	2691	CB	PRO	A 362	24.727	41.768	61.867		AAAA
ATOM	2692	CG	PRO	A 362	25.794	42.539	62.557		AAAA
ATOM	2693	С		A 362	23.006	43.636			AAAA
MOTA	2694	0		A 362	23.280	44.721			AAAA
ATOM	2695			A 363	21.770	43.150			AAAA

ATOM	2696	CA	LEU	Α	363	20.675	43.927	62.174	1.00 40.6	2 AAAA
ATOM	2697	CB	ĽEU			19.336	43.470	61.591	1.00 39.4	1 AAAA
ATOM	2698	CG	LEU			18.287	44.551	61.333	1.00 37.7	
ATOM	2699		LEU			16.907	43.909	61.320	1.00 37.9	
ATOM	2700		LEU			18.363	45.618	62.399	1.00 36.5	
ATOM	2701	С	LEU			20.609	43.873	63.693	1.00 41.3	
ATOM	2702	0	LEU	Α	363	21.585	44.156	64.372	1.00 42.5	
MOTA	2703	N	ASP	Α	364	19.446	43.512	64.215	1.00 41.8	9 AAAA
ATOM	2704	CA	ASP	Α	364	19.217	43.413	65.646	1.00 42.9	1 AAAA
ATOM	2705	СВ	ASP			19.470	44.742	66.346	1.00 45.5	
ATOM	2706	CG	ASP			18.838	44.799	67.738	1.00 49.1	
MOTA	2707		ASP			17.600	44.610	67.861	1.00 49.0	
ATOM	2708		ASP			19.587	45.039	68.712	1.00 50.9	
ATOM	2709	С	ASP	Α	364	17.772	43.063	65.828	1.00 42.8	5 AAAA
ATOM	2710	0	ASP	Α	364	16.895	43.821	65.461	1.00 43.4	9 AAAA
ATOM	2711	N	PRO	Α	365	17.498	41.917	66.424	1.00 43.1	6 AAAA
ATOM	2712	CD			365	18.446	40.955	67.002	1.00 43.7	
									1.00 44.0	
ATOM	2713	CA			365	16.118	41.496	66.637		
ATOM	2714	CB			365	16.264	40.374	67.651	1.00 45.0	
ATOM	2715	CG	PRO	А	365	17.565	39.751	67.246	1.00 45.0	1 AAAA
ATOM	2716	С	PRO	Α	365	15.206	42.600	67.139	1.00 44.8	4 AAAA
ATOM	2717	0	PRO	Α	365	14.234	42.972	66.487	1.00 44.3	9 AAAA
ATOM	2718	N			366	15.537	43.128	68.307	1.00 46.5	
ATOM	2719	CA			366	14.726	44.159	68.937	1.00 47.0	
ATOM	2720	CB			366	15.371	44.604	70.252	1.00 49.8	
ATOM	2721	CG			366	15.459	43.494	71.304	1.00 52.5	
ATOM	2722	CD	GLN	Α	366	16.118	42.229	70.769	1.00 55.3	AAAA 8
ATOM	2723	OE1	GLN	Α	366	17.267	42.257	70.304	1.00 56.5	AAAA 8
ATOM	2724	NE2	GLN	А	366	15.390	41.112	70.824	1.00 55.7	3 AAAA
ATOM	2725	С			366	14.530	45.336	68.021	1.00 45.2	
									1.00 45.0	
ATOM	2726	0			366	13.642	46.158	68.231	_	
MOTA	2727	N			367	15.353	45.403	66.988	1.00 43.7	
ATOM	2728	CA	GLU	Α	367	15.262	46.496	66.039	1.00 42.8	2 AAAA
ATOM	2729	CB	GLU	Α	367	16.549	46.605	65.234	1.00 42.2	8 AAAA
ATOM	2730	CG	GLU	Α	367	16.670	47.912	64.521	1.00 43.3	5 AAAA
MOTA	2731	CD			367	16.888	49.043	65.487	1.00 43.5	
ATOM	2732		GLU			17.945	49.040	66.154	1.00 44.6	
MOTA	2733		GLU			16.007	49.923	65.586	1.00 41.7	
ATOM	2734	С	GLU	A	367	14.090	46.337	65.085	1.00 41.6	
MOTA	2735	0	GLU	Α	367	13.681	47.302	64.452	1.00 41.7	8 AAAA
ATOM	2736	N	LEU	Α	368	13.561	45.120	64.985	1.00 40.3	1 AAAA
ATOM	2737	CA	LEU	Α	368	12.448	44.833	64.093	1.00 39.2	6 AAAA
ATOM	2738	СВ			368	12.378	43.329	63.769	1.00 39.9	
ATOM	2739	CG			368	13.376	42.610	62.839	1.00 40.9	
ATOM	2740		LEU			13.114	41.107	62.895	1.00 40.0	
ATOM	2741		LEU			13.241	43.103	61.400	1.00 40.6	
MOTA	2742	С	LEU	А	368	11.144	45.259	64.729	1.00 38.3	
ATOM	2743	0	LEU	Α	368	10.093	45.208	64.106	1.00 38.6	4 AAAA
ATOM	2744	N	ASP	Α	369	11.214	45.684	65.978	1.00 38.0	7 AAAA
ATOM	2745	CA			369	10.018	46.096	66.704	1.00 38.8	4 AAAA
ATOM	2746	СВ			369	10.375	46.331		1.00 40.5	
									1.00 43.5	
ATOM	2747	CG			369	10.563	45.030	68.935		
MOTA	2748		ASP			11.062	44.054	68.326	1.00 43.8	
ATOM	2749		ASP			10.216	44.984	70.139	1.00 45.2	
ATOM	2750	С	ASP	Α	369	9.341	47.330	66.122	1.00 37.7	
ATOM	2751	0	ASP	Α	369	8.199	47.661	66.474	1.00 37.3	
ATOM	2752	N	ILE	Α	370	10.045	47.985	65.208	1.00 35.4	9 AAAA
ATOM	2753	CA			370	9.565	49.203	64.576	1.00 33.9	
ATOM	2754	СВ			370	10.696	49.812	63.763	1.00 32.0	
ATOM	2755		ILE			10.374	51.247	63.420	1.00 32.7	
ATOM	2756		ILE			11.983	49.726	64.579	1.00 30.1	
MOTA	2757	CD1	ILE			13.204	50.164	63.871	1.00 27.7	
MOTA	2758	С	ILE	Α	370	8.339	49.010	63.685	1.00 34.3	2 AAAA
MOTA	2759	0	ILE	Α	370	7.446	49.857	63.637	1.00 33.5	3 AAAA
MOTA	2760	N			371	8.297	47.875	63.000	1.00 35.3	
ATOM	2761	CA			371	7.218	47.551	62.075	1.00 36.3	
								61.317	1.00 35.5	
ATOM	2762	CB			371	7.587	46.269			
ATOM	2763	CG			371	8.943	46.337	60.596	1.00 35.7	
ATOM	2764		LEU			9.314	44.991	59.981	1.00 34.8	
MOTA	2765	CD2	LEU	Α	371	8.874	47.411	59.525	1.00 35.8	
ATOM	2766	С	LEU	Α	371	5.830	47.406	62.711	1.00 36.9	O AAAA
ATOM	2767	0			371	4.872	47.002	62.041	1.00 37.8	1 AAAA
ATOM	2768	N			372	5.704	47.757		1.00 35.6	
ATOM	2769								1.00 36.4	
		CA			372	4.422	47.609		_	
ATOM	2770	CB	FIZ	А	372	4.616	47.687	66.17 <b>7</b>	1.00 38.3	- VVVV

ATOM	2771	CG	LYS	Δ	372	5.361	46.492	66.779	1.00 38.36	AAAA
ATOM	2772		LYS			5.417	46.565	68.298	0.01 38.20	AAAA
ATOM	2773		LYS			6.190	47.782	68.779	0.01 38.18	AAAA
ATOM	2774		LYS			6.293	47.816	70.265	0.01 38.30	AAAA
ATOM	2775		LYS			3.365	48.611	64.210	1.00 36.58	AAAA
ATOM	2776		LYS			2.187	48.485	64.554	1.00 35.43	AAAA
MOTA	2777	N	THR			3.788	49.601	63.431	1.00 36.95	AAAA
MOTA	2778	CA	THR			2.873	50.627	62.930	1.00 37.23	AAAA
ATOM	2779	CB	THR			3.564	51.991	62.907	1.00 36.94	AAAA
ATOM	2780	OG1				4.762	51.930	63.690	1.00 37.13	AAAA
	2781		THR			2.646	53.055	63.482	1.00 37.38	AAAA
ATOM	2782	C	THR			2.386	50.286	61.514	1.00 37.37	AAAA
ATOM ATOM	2783		THR			1.381	50.813	61.041	1.00 37.04	AAAA
		O N	VAL			3.125	49.402	60.849	1.00 37.19	AAAA
ATOM	2784		VAL			2.809	48.938	59.502	1.00 35.62	AAAA
ATOM	2785	CA				3.898	47.971	58.965	1.00 35.91	AAAA
ATOM	2786	CB	VAL			3.415	47.302	57.696	1.00 34.07	AAAA
ATOM	2787		VAL				48.716	58.716	1.00 35.64	AAAA
ATOM	2788		VAL			5.199	48.157	59.607	1.00 34.77	AAAA
ATOM	2789	C	VAL			1.527	47.021	60.061	1.00 34.77	AAAA
ATOM	2790	0	VAL			1.548	48.749	59.201	1.00 33.97	AAAA
ATOM	2791	N			375	0.413	48.050	59.285	1.00 33.78	AAAA
ATOM	2792	CA			375	-0.862		60.078	1.00 35.78	AAAA
ATOM	2793	CB			375	-1.858	48.883	59.703	1.00 33.30	AAAA
MOTA	2794	CG			375	-1.849	50.344		1.00 46.41	AAAA
ATOM	2795	CD			375	-2.623	51.173	60.713 62.086	1.00 49.95	AAAA
ATOM	2796	CE			375	-1.947	51.177			AAAA
ATOM	2797	NZ			375	-0.639	51.918	62.095	1.00 52.83	AAAA
MOTA	2798	С			375	-1.425	47.719	57.920	1.00 32.02	AAAA
ATOM	2799	0			375	-2.466	47.072	57.813	1.00 31.82	
ATOM	2800	N			376	-0.720	48.159	56.881	1.00 30.42	AAAA
MOTA	2801	CA			376	-1.124	47.913	55.504	1.00 28.60	AAAA
ATOM	2802	CB			376	-2.072	49.001	55.028	1.00 30.98	AAAA
MOTA	2803	CG			376	-2.610	48.777	53.640	1.00 34.83	AAAA
ATOM	2804	CD			376	-3.320	50.001	53.078	1.00 37.57	AAAA
MOTA	2805		GLU			-4.263	50.507	53.729	1.00 38.54	AAAA
ATOM	2806	OE2			376	-2.936	50.451	51.975	1.00 38.52	AAAA
MOTA	2807	С			376	0.068	47.879	54.572	1.00 26.77	AAAA
ATOM	2808	0			376	0.938	48.727	54.638	1.00 24.14	AAAA
MOTA	2809	N			377	0.089		53.697	1.00 26.83	AAAA
MOTA	2810	CA			377	1.149		52.706	1.00 26.23	AAAA
ATOM	2811	CB			377	1.952		52.947	1.00 24.24	AAAA
MOTA	2812				. 377	3.071	45.292	51.929	1.00 23.65	AAAA
ATOM	2813				. 377	2.509		54.371	1.00 21.92	AAAA
MOTA	2814	CD1	ILE	: A	. 377	3.315		54.723	1.00 18.33	AAAA
MOTA	2815	С	ILE	: A	. 377	0.448		51.341	1.00 27.37	AAAA
ATOM	2816	0			. 377	-0.417		51.172	1.00 28.29	AAAA
ATOM	2817	N			378	0.787		50.384	1.00 26.78	AAAA
ATOM	2818	CA			378	0.154		49.057	1.00 26.39	AAAA
ATOM	2819	CB			378	0.204				AAAA
MOTA	2820				378	1.546			1.00 27.23	AAAA
MOTA	2821	CG2			378	-0.665				AAAA
MOTA	2822	С	THE	R P	378	0.815				AAAA
ATOM	2823	0	THE	R P	378	0.149				AAAA
MOTA	2824	N			379	2.132				AAAA
MOTA	2825	CA	GL)	C P	379	2.823				AAAA
MOTA	2826	С	GL'	C F	379	2.595				AAAA
MOTA	2827	0			379	1.456				AAAA
ATOM	2828	N	PHI	3 7	380	3.6 <b>7</b> 1				AAAA
ATOM	2829	CA	PHI	2 <i>7</i>	380	3.558	41.995			AAAA
MOTA	2830	CB	PHI	E A	380	3.814	40.855			AAAA
ATOM	2831	CG	PHI	E 7	A 380	5.227				AAAA
MOTA	2832	CDI	L PH	E 7	088	6.280				AAAA
MOTA	2833	CD2	2 PHI	E /	380	5.491	40.949			AAAA
ATOM	2834	CE:	l PH	e A	A 380	7.564				AAAA
MOTA	2835	CE	2 PH	E 2	A 380	6.785	40.797			AAAA
ATOM	2836				08E A	7.813	3 40.476	46.811		AAAA
ATOM	2837				A 380	4.443	3 41.817			AAAA
ATOM	2838				A 380	5.21	42.702	50.955		AAAA
ATOM	2839				A 381	4.303	40.669	51.238		AAAA
ATOM	2840				A 381	5.073	3 40.345	52.424		AAAA
ATOM	2841				A 381	4.14		53.635	1.00 12.36	AAAA
ATOM	2842				A 381	4.760			1.00 12.74	AAAA
ATOM	2843				A 381	6.11			1.00 14.23	AAAA
ATOM	2844				A 381	3.81			1.00 9.17	AAAA
MOTA	2845				A 381	5.78				AAAA
		-			. =-					

ATOM	2846	0	LEU A		5.13		51.914	1.00 17.92	AAAA
ATOM	2847	N	LEU A		7.10		52.322	1.00 17.06	AAAA
ATOM	2848 2849	CA CB	LEU A	. –	7.89 8.55		52.130 50.760	1.00 16.36 1.00 14.31	AAAA AAAA
ATOM ATOM	2850	CG	LEU A		9.32		50.760	1.00 14.31	AAAA
ATOM	2851		LEU A		- 9.91		48.820	1.00 13.91	AAAA
ATOM	2852	CD2	LEU A	382	10.44	6 36.173	50.818	1.00 13.22	AAAA
MOTA	2853	С	LEU A		8.95		53.241	1.00 17.77	AAAA
MOTA	2854	0	LEU A		9.99		53.231	1.00 18.23	AAAA
ATOM	2855 2856	N	ILE A		8.68 9.65		54.210 55.287	1.00 17.68 1.00 17.23	AAAA AAAA
ATOM ATOM	2857	CA CB	ILE A		8.98		56.702	1.00 17.23	AAAA
ATOM	2858		ILE A		10.05		57.751	1.00 15.67	AAAA
ATOM	2859	CG1	ILE A	383	8.24		57.128	1.00 15.01	AAAA
ATOM	2860		ILE A		6.87		56.621	1.00 16.40	AAAA
ATOM	2861	С	ILE /		10.39		54.984	1.00 16.22	AAAA
MOTA	2862 2863	O N	ILE A		9.79 11.70		54.904 54.816	1.00 16.12 1.00 16.26	AAAA AAAA
ATOM ATOM	2864	CA	GLN A		12.51		54.533	1.00 18.28	AAAA
ATOM	2865	CB	GLN A		13.34		53.270	1.00 16.65	AAAA
ATOM.	2866	CG	GLN A	384	12.63	0 33.950	52.006	1.00 16.87	AAAA
ATOM	2867	CD	GLN A		13.57		50.847	1.00 20.47	AAAA
ATOM	2868	OE1			14.69		50.955	1.00 23.82	AAAA
ATOM	2869 2870	C NEZ	GLN A		13.14 13.44		49.728 55.684	1.00 21.10 1.00 19.30	AAAA AAAA
ATOM ATOM	2871	0	GLN A		13.44		55.821	1.00 19.30	AAAA
ATOM	2872	N	ALA A		13.71		56.499	1.00 20.72	AAAA
ATOM	2873	CA	ALA A		14.57		57.665	1.00 22.20	AAAA
ATOM	2874	CB	ALA A		15.87		57.417	1.00 20.63	AAAA
ATOM	2875	C	ALA A		13.83		58.807	1.00 24.15	AAAA
ATOM ATOM	2876 2877	O N	ALA A	4 385 4 386	12.88 14.23		58.563 60.043	1.00 24.35 1.00 26.14	AAAA AAAA
ATOM	2878	CA		386	13.61		61.226	1.00 27.11	AAAA
ATOM	2879	CB		386	12.23		61.490	1.00 25.61	AAAA
ATOM	2880	CG	TRP 2	A 386	11.38	5 35.904	62.333	1.00 26.84	AAAA
ATOM	2881		TRP A		10.88		61.970	1.00 26.81	AAAA
ATOM	2882		TRP A		10.25		63.115	1.00 27.24	AAAA
ATOM ATOM	2883 2884	CE3	TRP I		10.91 11.03		60.792 63.641	1.00 26.25 1.00 28.21	AAAA AAAA
ATOM	2885		TRP A		10.36		64.119	1.00 28.49	AAAA
ATOM	2886		TRP 2		9.66		63.114	1.00 26.97	AAAA
MOTA	2887		TRP A		10.32		60.788	1.00 26.99	AAAA
ATOM	2888		TRP A		9.71		61.942	1.00 27.99	AAAA
MOTA MOTA	2889 2890	С 0	TRP A	4 386 4 386	14.50 15.24		62.446 62.532	1.00 29.37 1.00 30.57	AAAA AAAA
ATOM	2891	N		A 387	14.45		63.403	1.00 32.46	AAAA
ATOM	2892	CD		387	13.66		63.420	1.00 32.34	AAAA
ATOM	2893	CA	PRO I	A 387	15.26		64.611	1.00 33.55	AAAA
ATOM	2894	CB		A 387	14.67		65.486	1.00 32.94	AAAA
ATOM	2895	CG		387	14.33		64.504	1.00 31.72 1.00 36.38	AAAA AAAA
ATOM ATOM	2896 2897	0		387 387	15.25 14.19		65.281 65.575	1.00 36.35	AAAA
ATOM	2898	N		388	16.46		65.518	1.00 39.78	AAAA
ATOM	2899	CA	GLU I	88E A	16.70	9 33.101	66.148	1.00 41.63	AAAA
MOTA	2900	CB		388	18.20		66.488	1.00 42.15	AAAA
ATOM	2901	CG		88E A	18.58		67.172 67.534	0.01 41.61 0.01 41.54	АААА АААА
ATOM ATOM	2902 2903	CD OF 1	GLU A	886 <i>A</i>	20.05 20.50		68.311	0.01 41.34	AAAA
ATOM	2904		GLU Z		20.75		67.043	0.01 41.39	AAAA
ATOM	2905	C		A 388	15.90		67.409	1.00 41.82	AAAA
ATOM	2906	0		A 388	15.31		67.553	1.00 41.17	AAAA
ATOM	2907	N		A 389	15.88		68.322	1.00 42.74	AAAA
MOTA	2908	CA		A 389	15.16		69.582	1.00 44.29 1.00 46.82	AAAA AAAA
ATOM ATOM	2909 2910	CB CG		A 389 A 389	15.86 17.31		70.671 70.834	1.00 40.02	AAAA
ATOM	2911		ASN A		17.62		71.167	1.00 52.31	AAAA
ATOM	2912		ASN .		18.21		70.593	1.00 53.00	AAAA
MOTA	2913	С		A 389			69.549	1.00 42.77	AAAA
ATOM	2914	0		A 389	13.00		70.579	1.00 42.38	AAAA
ATOM ATOM	2915 2916	N CA		A 390 A 390	13.17 11.76		68.375 68.250	1.00 40.66 1.00 37.58	AAAA AAAA
ATOM ATOM	2916	CB		4 390 4 390			67.165	1.00 37.38	AAAA
ATOM	2918	CG		A 390			67.510	1.00 36.46	AAAA
ATOM	2919	CD	ARG 2	A 390	11.33	6 38.164	67.673	1.00 36.13	AAAA
MOTA	2920	NE	ARG 2	A 390	11.93	4 39.495	67.694	1.00 32.95	AAAA

ATOM	2921	CZ	ARG A	390	11.220	40.604	67.560	1.00 31.66	AAAA
								1.00 28.04	AAAA
ATOM	2922		ARG A		9.899	40.523	67.398		
ATOM	2923		ARG A		11.823	41.784	67.590	1.00 30.24	AAAA
ATOM	2924	С	ARG A	390	10.812	33.568	67.984	1.00 35.12	AAAA
ATOM	2925	0	ARG A	390	11.144	32.607	67.288	1.00 35.20	AAAA
ATOM	2926		THR A		9.616	33.676	68.547	1.00 32.32	AAAA
			THR A		8.610	32.632	68.406	1.00 30.62	AAAA
ATOM	2927								
MOTA	2928	CB	THR A	391	8.074	32.190	69.798	1.00 31.70	AAAA
ATOM	2929	OG1	THR A	391	9.101	31.484	70.503	1.00 32.19	AAAA
MOTA	2930	CG2	THR A	391	6.882	31.287	69.654	1.00 31.88	AAAA
ATOM	2931		THR A		7.450	33.027	67.496	1.00 27.76	AAAA
ATOM	2932		THR A		7.297	32.432	66.438	1.00 26.88	AAAA
MOTA	2933	N	ASP A	. 392	6.615	33.991	67.893	1.00 25.00	AAAA
ATOM	2934	CA	ASP A	392	5.539	34.375	66.997	1.00 22.77	AAAA
ATOM	2935	CB	ASP A	392	4.271	34.961	67.738	1.00 20.35	AAAA
ATOM	2936	CG	ASP A		4.577	36.043	68.850	1.00 20.59	AAAA
							69.426	1.00 22.98	AAAA
ATOM	2937		ASP A		5.689	35.985			
ATOM	2938	OD2	ASP A		3.681	36.915	69.176	1.00 6.51	AAAA
ATOM	2939	С	ASP A	392	6.143	35.348	65.993	1.00 23.96	AAAA
ATOM	2940	0	ASP A	392	7.315	35.706	66.119	1.00 22.39	AAAA
ATOM	2941	N	LEU A		5.389	35.691	64.949	1.00 24.90	AAAA
			LEU A					1.00 25.10	AAAA
ATOM	2942	CA			5.851	36.679	63.986		
MOTA	2943	CB	LEU A		5.182	36.504	62.628	1.00 24.86	AAAA
MOTA	2944	CG	LEU A	393	5.755	35.534	61.598	1.00 25.17	AAAA
MOTA	2945	CD1	LEU A	393	4.825	35.534	60.396	1.00 26.28	AAAA
ATOM	2946		LEU A		7.161	35.940	61.191	1.00 23.61	AAAA
								1.00 26.53	AAAA
ATOM	2947	С	LEU A		5.378	37.986	64.603		
MOTA	2948	0	LEU P	393	4.809	38.838	63.927	1.00 26.22	AAAA
ATOM	2949	N	HIS P	394	5.582	38.110	65.912	1.00 28.69	AAAA
ATOM	2950	CA	HIS A	394	5.189	39.303	66.645	1.00 31.28	AAAA
MOTA	2951	CB	HIS A		5.348	39.103	68.165	1.00 31.31	AAAA
									AAAA
ATOM	2952	CG	HIS A		5.100	40.337	68.976	0.01 30.34	
ATOM	2953		HIS F		4.245	40.571	70.000	0.01 30.06	AAAA
MOTA	2954	ND1	HIS F	394	5.807	41.506	68.794	0.01 30.08	AAAA
ATOM	2955	CE1	HIS A	394	5.399	42.406	69.672	0.01 29.82	AAAA
ATOM	2956		HIS A		4.452	41.863	70.415	0.01 29.81	AAAA
					6.067	40.440	66.167	1.00 32.83	AAAA
ATOM	2957	C	HIS A						
MOTA	2958	0	HIS A		7.305	40.411	66.329	1.00 33.85	AAAA
MOTA	2959	N	ALA A	A 395	5.393	41.419	65.569	1.00 31.28	AAAA
ATOM	2960	CA	ALA A	395	5.989	42.626	65.018	1.00 31.26	AAAA
ATOM	2961	CB	ALA A	395	7.360	42.348	64.404	1.00 29.67	AAAA
ATOM	2962	c	ALA A		4.992	42.989	63.942	1.00 30.83	AAAA
								1.00 31.98	AAAA
ATOM	2963	0	ALA A		4.652	44.159	63.728		
MOTA	2964	N		A 396	4.516	41.954	63.267	1.00 28.91	AAAA
MOTA	2965	CA	PHE A	A 396	3.528	42.125	62.226	1.00 26.89	AAAA
MOTA	2966	CB	PHE A	A 396	3.808	41.161	61.075	1.00 21.32	AAAA
ATOM	2967	CG		A 396	4.875	41.632	60.128	1.00 17.99	AAAA
ATOM	2968		PHE A		4.655	42.718	59.294	1.00 18.40	AAAA
MOTA	2969		PHE A		6.080			1.00 18.25	AAAA
ATOM	2970	CE1	PHE A	A 396	5.618	43.129	58.373	1.00 15.62	AAAA
ATOM	2971	CE2	PHE 2	A 396	7.048	41.370	59.111	1.00 18.33	AAAA
ATOM	2972	CZ		A 396	6.810	42.453	58.285	1.00 17.35	AAAA
ATOM	2973	C		A 396	2.184	41.824	62.889	1.00 27.58	AAAA
				A 396			62.227	1.00 28.16	AAAA
MOTA	2974	0			1.178	41.600			
ATOM	2975	N		A 397	2.186	41.828	64.216	1.00 28.26	AAAA
ATOM	2976	CA	GLU :	A 397	0.979	41.549	64.977	1.00 29.34	AAAA
ATOM	2977	CB	GLU :	A 397	1.225	41.750	66.468	1.00 28.76	AAAA
ATOM	2978	CG		A 397	1.702	43.152	66.817	0.01 28.09	AAAA
ATOM	2979	CD		A 397	1.739	43.406	68.309	0.01 27.69	AAAA
								0.01 27.41	AAAA
ATOM	2980		GLU :		2.383	42.618	69.030		
MOTA	2981	OE2	GLU .	A 397	1.128	44.397	68.759	0.01 27.38	AAAA
ATOM	2982	С	GLU .	A 397	-0.155	42.454	64.549	1.00 30.45	AAAA
ATOM	2983	0		A 397	-1.325	42.084	64.655	1.00 29.16	AAAA
ATOM	2984	N		A 398	0.190	43.640		1.00 31.46	AAAA
					-0.839			1.00 32.47	AAAA
ATOM	2985	CA		A 398		44.573			
MOTA	2986	CB.		A 398	-0.563	45.943		1.00 33.05	AAAA
ATOM	2987	CG	ASN	A 398	-0.836	45.978	65.744	1.00 33.60	AAAA
MOTA	2988	OD1	ASN	A 398	-1.878	45.508	66.197	1.00 33.22	AAAA
ATOM	2989		ASN		0.092	46.538		1.00 35.10	AAAA
ATOM	2990			A 398	-1.089	44.691		1.00 33.08	AAAA
		C							
ATOM	2991	0		A 398	-2.014	45.388		1.00 33.98	AAAA
ATOM	2992	N		A 399	-0.276	44.020			AAAA
MOTA	2993	CA	LEU	A 399	-0.479	44.051	59.929	1.00 34.10	AAAA
ATOM	2994	СВ		A 399	0.566	43.189		1.00 33.27	AAAA
ATOM	2995	CG		A 399	0.387	43.095		1.00 33.81	AAAA
111 011		-00	2.00	درد	0.507	.5.055	57.704	1.00 00.01	

АТОМ 0.792 44.406 57.075 1.00 34.05 AAAA 2996 CD1 LEU A 399 ATOM 2997 CD2 LEU A 399 1.223 41.973 57.144 1.00 32.61 MOTA 2998 C LEU A 399 -1.867 43.461 59.719 1.00 34.57 AAAA 60.230 1.00 34.31 ATOM 2999 LEU A 399 -2.150 42.386 AAAA 0 GLU A 400 -2.732 44.151 58.981 1.00 36.49 AAAA ATOM 3000 N MOTA 3001 CA GLU A 400 -4.088 43.650 58.761 1.00 38.71 AAAA -5.083 44.444 59.605 1.00 40.21 -4.781 45.927 59.720 1.00 43.91 ATOM 3002 CB GLU A 400 AAAA AAAA ATOM 3003 CG GLU A 400 -5.728 46.641 60.680 1.00 46.05 CD GLU A 400 AAAA MOTA 3004 -5.439 47.800 61.048 1.00 47.71 MOTA 3005 OE1 GLU A 400 AAAA -6.766 46.050 61.061 1.00 46.57 -4.582 43.605 57.320 1.00 39.24 OE2 GLU A 400 AAAA ATOM 3006 **GLU A 400** AAAA ATOM 3007 С **GLU A 400** -5.725 43.217 57.071 1.00 40.47 AAAA ATOM 3008 0 56.375 1.00 38.20 54.957 1.00 35.95 3009 N ILE A 401 -3.723 43.983 AAAA ATOM ATOM 3010 CA ILE A 401 -4.074 43.977 AAAA -4.971 45.211 54.581 1.00 36.24 CB ILE A 401 AAAA ATOM 3011 -4.824 45.572 53.110 1.00 35.40 -6.439 44.907 54.877 1.00 35.97 ATOM 3012 CG2 ILE A 401 AAAA ATOM 3013 CG1 ILE A 401 AAAA -7.397 46.002 54.446 1.00 34.29 ATOM 3014 CD1 ILE A 401 AAAA ATOM 3015 C ILE A 401 -2.846 43.966 54.048 1.00 34.65 AAAA -2.018 44.875 54.075 1.00 34.14 AAAA ATOM 3016 O ILE A 401 MOTA 3017 ILE A 402 -2.728 42.903 53.266 1.00 33.13 AAAA N -1.669 42.770 52.278 1.00 31.77 3018 CA ILE A 402 AAAA ATOM MOTA 3019 CB ILE A 402 -0.939 41.414 52.387 1.00 31.12 AAAA 0.121 41.310 51.310 1.00 30.45 -0.286 41.275 53.764 1.00 31.27 ATOM 3020 CG2 ILE A 402 AAAA MOTA 3021 CG1 ILE A 402 AAAA 53.976 1.00 30.83 ATOM 3022 CD1 ILE A 402 0.466 39.955 AAAA -2.533 42.795 51.015 1.00 31.01 AAAA MOTA 3023 C ILE A 402 -3.353 41.905 50.829 1.00 30.87 -2.379 43.819 50.175 1.00 29.97 ATOM 3024 O ILE A 402 AAAA ARG A 403 AAAA ATOM 3025 N MOTA 3026 CA ARG A 403 -3.199 43.961 48.968 1.00 28.60 AAAA -3.325 45.435 48.580 1.00 30.57 -4.044 46.286 49.608 1.00 31.43 CB ARG A 403 AAAA MOTA 3027 MOTA 3028 CG ARG A 403 AAAA ARG A 403 -4.172 47.712 49.128 1.00 31.13 AAAA ATOM 3029 CD -4.524 48.613 50.217 1.00 31.94 AAAA ATOM 3030 NE ARG A 403 -5.725 48.683 50.782 1.00 33.33 -6.710 47.901 50.359 1.00 34.25 ATOM 3031 CZ ARG A 403 AAAA NH1 ARG A 403 AAAA ATOM 3032 ATOM 3033 NH2 ARG A 403 -5.936 49.535 51.775 1.00 32.31 AAAA -2.799 43.179 47.735 1.00 26.49 -3.652 42.761 46.967 1.00 27.85 ARG A 403 AAAA АТОМ 3034 C ATOM 3035 ARG A 403 AAAA 0 3036 N **GLY A 404** -1.516 43.001 47.506 1.00 23.74 AAAA MOTA -1.136 42.244 46.334 1.00 22.08 -1.030 42.983 45.010 1.00 20.50 -1.103 42.347 43.950 1.00 20.17 AAAA MOTA 3037 CA GLY A 404 ATOM 3038 С GLY A 404 AAAA AAAA GLY A 404 3039 O MOTA 3040 N ARG A 405 -0.855 44.305 45.066 1.00 18.31 AAAA ATOM -0.705 45.121 43.870 1.00 16.26 -0.482 46.578 44.254 1.00 15.89 ATOM 3041 CA ARG A 405 AAAA AAAA MOTA 3042 CB ARG A 405 -1.677 47.251 44.868 1.00 17.86 AAAA ATOM 3043 CG ARG A 405 -2.495 48.010 43.841 1.00 18.89 AAAA MOTA 3044 CD ARG A 405 -3.788 48.397 44.383 1.00 18.80 -3.954 49.248 45.383 1.00 21.29 MOTA 3045 NE ARG A 405 AAAA CZ ARG A 405 AAAA ATOM 3046 NH1 ARG A 405 -2.903 49.825 45.957 1.00 20.18 AAAA MOTA 3047 -5.175 49.488 45.835 1.00 21.72 0.517 44.595 43.128 1.00 16.34 3048 NH2 ARG A 405 AAAA MOTA ATOM 3049 ARG A 405 AAAA С 0.680 44.808 41.929 1.00 15.49 AAAA ATOM 3050 O ARG A 405 1.384 43.922 43.877 1.00 16.74 2.589 43.313 43.338 1.00 16.80 3.796 44.122 43.711 1.00 14.44 AAAA THR A 406 ATOM 3051 N MOTA 3052 CA THR A 406 AAAA CB THR A 406 AAAA 3053 MOTA OG1 THR A 406 3.385 45.217 44.525 1.00 13.37 AAAA ATOM 3054 4.451 44.666 42.470 1.00 14.56 2.661 41.935 43.970 1.00 19.08 ATOM 3055 CG2 THR A 406 AAAA MOTA 3056 THR A 406 AAAA С 2.096 41.733 45.026 1.00 21.84 3057 THR A 406 AAAA ATOM 0 3.321 40.975 43.339 1.00 21.08 AAAA MOTA 3058 N LYS A 407 3.394 39.631 43.918 1.00 24.24 2.317 38.736 43.314 1.00 25.48 AAAA ATOM 3059 CA LYS A 407 LYS A 407 AAAA MOTA 3060 CB 0.917 39.264 43.423 1.00 26.64 AAAA ATOM 3061 CG LYS A 407 0.015 38.519 42.461 1.00 27.09 -1.273 39.283 42.265 1.00 27.24 -2.115 38.613 41.264 1.00 27.64 3062 AAAA MOTA CD LYS A 407 3063 LYS A 407 AAAA MOTA CE AAAA ATOM 3064 NZ LYS A 407 3065 4.738 38.995 43.640 1.00 25.26 AAAA ATOM LYS A 407 5.221 39.073 42.519 1.00 26.54 5.354 38.355 44.630 1.00 26.03 AAAA 3066 LYS A 407 MOTA Ω AAAA MOTA 3067 N GLN A 408 5.354 6.644 37.735 44.346 1.00 26.43 AAAA ATOM 3068 CA GLN A 408 7.312 37.172 45.603 1.00 22.84 AAAA ATOM 3069 CB GLN A 408 3070 GLN A 408 8.598 36.401 45.298 1.00 20.07 AAAA ATOM CG

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ATOM	3071	CD	GLN	Α	408	9.799	37.285	44.948	1.00 19.10	AAAA
ATOM	3072	OE1				9.683	38.279	44.231	1.00 20.97	AAAA
ATOM	3073	NE2				10.963	36.902	45.439	1.00 13.73	AAAA
ATOM	3074	С	GLN			6.429	36.621	43.321	1.00 28.13	AAAA
ATOM	3075	ō	GLN			5.594	35.720	43.510	1.00 27.71	AAAA
ATOM	3076	N	HIS			7.180	36.722	42.224	1.00 29.39	AAAA
ATOM	3077	CA	HIS			7.116	35.773	41.128	1.00 30.43	AAAA
ATOM	3078	CB	HIS			7.417	34.363	41.631	1.00 30.28	AAAA
ATOM	3079	CG	HIS			8.778	34.220	42.239	1.00 31.31	AAAA
								43.260	1.00 31.31	AAAA
ATOM	3080		HIS			9.224	33.453		1.00 31.17	
ATOM	3081		HIS			9.884	34.876	41.744		AAAA
ATOM	3082		HIS			10.952	34.518	42.430	1.00 28.18	AAAA
ATOM	3083		HIS			10.579	33.653	43.355	1.00 30.07	AAAA
ATOM	3084	С			409	5.746	35.822	40.471	1.00 31.57	AAAA
MOTA	3085	0			409	5.217	34.806	40.031	1.00 33.44	AAAA
ATOM	3086	И			410	5.177	37.018	40.409	1.00 30.51	AAAA
ATOM	3087	CA			410	3.879	37.186	39.804	1.00 30.25	AAAA
MOTA	3088	С	GLY	A	410	2.761	36.378	40.428	1.00 31.22	AAAA
ATOM	3089	0	GLY	Α	410	1.625	36.483	39.982	1.00 31.64	AAAA
MOTA	3090	N	GLN	Α	411	3.042	35.586	41.460	1.00 31.56	AAAA
MOTA	3091	CA	GLN	Α	411	1.975	34.798	42.050	1.00 32.08	AAAA
ATOM	3092	CB	GLN	Α	411	2.167	33.326	41.710	1.00 32.04	AAAA
ATOM	3093	CG	GLN	Α	411	0.915	32.492	41.964	1.00 34.90	AAAA
ATOM	3094	CD			411	1.158	30.995	41.921	1.00 36.53	AAAA
ATOM	3095		GLN			1.845	30.487	41.027	1.00 38.09	AAAA
ATOM	3096		GLN			0.583	30.275	42.881	1.00 34.86	AAAA
ATOM	3097	C			411	1.702	34.912	43.553	1.00 34.05	AAAA
ATOM	3098	Ö			411	0.563	34.718	43.983	1.00 35.07	AAAA
ATOM	3099	N			412	2.704	35.233	44.367	1.00 34.72	AAAA
									1.00 33.37	AAAA
ATOM	3100	CA			412	2.453	35.284	45.818	1.00 33.37	AAAA
ATOM	3101	CB			412	3.446	34.353	46.530		
MOTA	3102	CG			412	3.572	32.988	45.883	1.00 34.35	AAAA
ATOM	3103				412	4.414	32.787	44.803	1.00 33.91	AAAA
MOTA	3104				412	2.837	31.905	46.351	1.00 35.39	AAAA
MOTA	3105				412	4.520	31.527	44.206	1.00 34.61	AAAA
ATOM	3106	CE2			412	2.943	30.647	45.757	1.00 33.94	AAAA
MOTA	3107	cz	PHE	Α	412	3.784	30.464	44.689	1.00 33.76	AAAA
MOTA	3108	С	PHE	Α	412	2.442	36.669	46.483	1.00 32.19	AAAA
MOTA	3109	0	PHE	A	412	3.290	37.522	46.183	1.00 32.26	AAAA
MOTA	3110	N	SER	A	413	1.469	36.883	47.380	1.00 28.73	AAAA
ATOM	3111	CA	SER	: A	413	1.331	38.156	48.091	1.00 23.99	AAAA
ATOM	3112	CB	SER	A	413	-0.097	38.697	47.966	1.00 25.26	AAAA
MOTA	3113	OG	SEF	A	413	-1.044	37.859	48.592	1.00 27.13	AAAA
ATOM	3114	С	SEF	A	413	1.742	38.068	49.559	1.00 20.44	AAAA
ATOM	3115	0	SEF	A	413	1.907	39.075	50.220	1.00 18.68	AAAA
ATOM	3116	N			414	1.885	36.850	50.055	1.00 18.60	AAAA
ATOM	3117	CA			414	2.342	36.592	51.412	1.00 18.34	AAAA
ATOM	3118	СВ	LEU	ΙA	414	1.186	36.402	52.416	1.00 19.49	AAAA
ATOM	3119				414	1.479	35.730	53.788	1.00 19.19	AAAA
ATOM	3120				414	2.153		54.720	1.00 18.65	AAAA
ATOM	3121				414	0.201				AAAA
ATOM	3122	c			414	3.102	35.290		1.00 18.50	AAAA
ATOM	3123	ō			414	2.666	34.379		1.00 18.63	AAAA
MOTA	3124	N			415	4.250	35.210		1.00 17.75	AAAA
ATOM	3125	CA			415	5.053	34.019		1.00 16.71	AAAA
MOTA	3126	CB			415	5.845	34.012		1.00 14.36	AAAA
MOTA	3127	c			415	5.988	33.968		1.00 17.69	AAAA
ATOM	3128	Ö			415	6.851	34.830		1.00 20.04	AAAA
	3129				416	5.808	32.972			AAAA
ATOM		И								AAAA
ATOM	3130	CA			416	6.694	32.823			AAAA
ATOM	3131	CB			416	5.936	32.994			
ATOM	3132				416	5.291	34.371			AAAA
ATOM	3133				416	4.880	31.939		and the second second	AAAA
ATOM	3134				416	7.297	31.445			AAAA
MOTA	3135				416	6.601	30.450			AAAA
MOTA	3136				417	8.600	31.391			AAAA
MOTA	3137				417	9.276	30.120			AAAA
MOTA	3138				417	9.665	29.899			AAAA
MOTA	3139	CG1	VA:	L A	417	8.544	30.363	52.022		AAAA
ATOM	3140	CG2	VA:	L ?	417	10.948	30.626	52.628		AAAA
ATOM	3141	С	VA	L A	417	10.558	30.002	55.240		AAAA
MOTA	3142	0			417	11.142	31.006	55.653	1.00 13.30	AAAA
ATOM	3143	N	SE	R A	418	10.979	28.752	55.441		AAAA
ATOM	3144	CA	SE	R A	4 418	12.219	28.402	56.131		Aaaa
MOTA	3145	CB	SE	R 1	418	13.402	28.733	55.229	1.00 18.64	Aaaa

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ATOM	3146	OG	SER .	A 41	8 13.441	30.131	54.946	1.00 20.45	AAAA
ATOM	3147	C	SER			29.011	57.491	1.00 18.26	AAAA
ATOM	3148	0	SER			29.305	57.803	1.00 19.28	AAAA
ATOM	3149	N	LEU			29.194	58.315	1.00 19.77	AAAA
ATOM	3150	CA	LEU			29.783	59.625	1.00 21.54	AAAA
ATOM	3151	CB	LEU			30.868	59.900	1.00 22.58	AAAA
ATOM	3152	CG	LEU			31.898	58.783	1.00 22.74	AAAA
ATOM	3153		LEU			32.935	59.219	1.00 22.33	AAAA
ATOM	3154		LEU			32.563	58.440	1.00 24.27	AAAA
ATOM	3155	c	LEU			28.721	60.714	1.00 22.59	AAAA
ATOM	3156	ŏ	LEU .			27.543	60.437	1.00 23.35	AAAA
ATOM	3157	N	ASN			29.136	61.958	1.00 24.12	AAAA
ATOM	3158	CA	ASN			28.205	63.077	1.00 24.70	AAAA
ATOM	3159	CB	ASN			28.107	63.781	1.00 25.13	AAAA
ATOM	3160	CG	ASN			27.498	62.898	1.00 28.17	AAAA
ATOM	3161		ASN			26.570	62.139	1.00 27.99	AAAA
ATOM	3162		ASN			28.004	62.999	1.00 28.54	AAAA
ATOM	3163	C	ASN			28.642	64.061	1.00 24.96	AAAA
ATOM	3164	Ö	ASN			28.097	65.142	1.00 26.31	AAAA
ATOM	3165	N	ILE			29.620	63.669	1.00 24.43	AAAA
ATOM	3166	CA	ILE			30.131	64.519	1.00 23.95	AAAA
ATOM	3167	CB	ILE			31.260	63.793	1.00 23.29	AAAA
ATOM	3168		ILE			32.361	63.393	1.00 21.82	AAAA
ATOM	3169	CG1	ILE			30.717	62.545	1.00 22.64	AAAA
ATOM	3170		ILE			31.754	61.794	1.00 22.54	AAAA
ATOM	3171	CDI	ILE			29.056	64.996	1.00 22.54	AAAA
ATOM	3172	Ö	ILE			28.033	64.361	1.00 23.32	AAAA
ATOM	3173	N	THR			29.313	66.127	1.00 24.49	AAAA
ATOM	3174	CA	THR			28.397	66.723	1.00 25.40	AAAA
ATOM	3175	CB	THR			28.557	68.264	1.00 25.26	AAAA
ATOM	3176		THR			27.577	68.828	1.00 25.84	AAAA
ATOM	3177		THR			28.411	68.864	1.00 26.79	AAAA
ATOM	3178	C	THR			28.639	66.169	1.00 26.36	AAAA
ATOM	3179	ō	THR			27.701	65.830	1.00 26.55	AAAA
ATOM	3180	N	SER			29.898	66.092	1.00 25.72	AAAA
MOTA	3181	CA	SER			30.214	65.549	1.00 25.13	AAAA
ATOM	3182	CB	SER			30.559	66.666	1.00 24.84	AAAA
ATOM	3183	OG	SER			31.944	66.948	1.00 24.26	AAAA
ATOM	3184	C	SER			31.406	64.639	1.00 24.94	AAAA
ATOM	3185	o	SER			31.868	64.507	1.00 22.61	AAAA
ATOM	3186	N	LEU			31.895	64.006	1.00 24.92	AAAA
ATOM	3187	CA	LEU			33.040	63.102	1.00 25.28	AAAA
ATOM	3188	CB	LEU			32.853	61.861	1.00 20.44	AAAA
ATOM	3189	CG	LEU			31.712	60.933	1.00 14.15	AAAA
ATOM	3190		LEU			31.620	59.755	1.00 11.68	AAAA
ATOM	3191		LEU			31.936	60.492	1.00 8.73	AAAA
ATOM	3192	c	LEU			34.363	63.802	1.00 26.98	AAAA
ATOM	3193	ō	LEU			35.363	63.562	1.00 27.93	·AAAA
ATOM	3194	N	GLY			34.365	64.683	1.00 28.38	AAAA
ATOM	3195	CA	GLY			35.576	65.416	1.00 29.71	AAAA
ATOM	3196	C.	GLY			36.795	64.573	1.00 31.10	AAAA
ATOM	3197	0	GLY			37.894	64.831	1.00 32.15	AAAA
ATOM	3198	N	LEU			36.601	63.548	1.00 30.41	AAAA
ATOM	3199	CA	LEU	A 4:	-0.716	37.697	62.696	1.00 29.01	AAAA
ATOM	3200	CB	LEU	A 42	26 -0.585	37.313	61.217	1.00 27.22	AAAA
ATOM	3201	CG	LEU			36.874	60.783	1.00 27.54	AAAA
ATOM	3202	CD1	LEU	A 4	26 0.813	36.612	59.310	1.00 26.93	AAAA
ATOM	3203	CD2	LEU	A 4	26 1.856	37.918	61.108	1.00 25.33	AAAA
ATOM	3204	С	LEU	A 4:	26 -2.166	37.880	63.101	1.00 29.26	AAAA
MOTA	3205	0	LEU	A 4	26 -3.091	37.571	62.345	1.00 30.59	AAAA
MOTA	3206	N	ARG	A 4	27 -2.335	38.368	64.325	1.00 26.97	AAAA
MOTA	3207	CA	ARG	A 4	27 -3.637	38.591	64.927	1.00 27.28	AAAA
ATOM	3208	CB	ARG	A 4:	27 -3.461	38.876	66.418	1.00 27.67	AAAA
ATOM	3209	CG	ARG	A 4	27 -2.665	40.136	66.719	0.01 27.18	AAAA
ATOM	3210	CD	ARG	A 4	-2.551	40.378	68.215	0.01 26.77	AAAA
ATOM	3211	NE	ARG	A 4	27 -1.844	41.620	68.515	0.01 26.56	AAAA
MOTA	3212	CZ	ARG	A 4	-1.616	42.072	69.744	0.01 26.37	AAAA
ATOM	3213	NH1	ARG	A 4	27 -2.039	41.385	70.796	0.01 26.45	AAAA
MOTA	3214	NH2	ARG	A 4	27 -0.965	43.214	69.921	0.01 26.46	AAAA
ATOM	3215	С	ARG	A 4	27 -4.473	39.700	64.308	1.00 28.14	, AAAA
ATOM	3216	0	ARG	A 4	27 -5.689	39.697	64.435	1.00 28.91	AAAA
MOTA	3217	И	SER	A 4	28 -3.831	40.653	63.647	1.00 28.65	AAAA
MOTA	3218	CA	SER	A 4	28 -4.561	41.754	63.031	1.00 29.14	AAAA
MOTA	3219	CB	SER	A 4	28 -3.701	43.017	63.018	1.00 28.35	AAAA
ATOM	3220	OG	SER	A 4	28 -3.193	43.322	64.298	1.00 27.12	AAAA

ATOM	3221	С	SER			-4.997	41.443	61.600	1.00 31.11	AAAA
MOTA	3222	0	SER			-6.055 -4.167	41.885	61.170 60.878	1.00 32.26 1.00 32.31	AAAA AAAA
ATOM ATOM	3223 3224	N CA	LEU			-4.167 -4.403	40.888	59.487	1.00 32.31	AAAA
ATOM	3225	CB	LEU		429	-3.482	39.147	59.131	1.00 33.01	AAAA
ATOM	3226	CG	LEU		429	-3.423	38.711	57.669	1.00 34.04	AAAA
ATOM	3227		LEU		429	-3.148	39.910	56.785	1.00 35.70	AAAA
ATOM	3228		LEU			-2.326	37.677 39.945	57.500 59.166	1.00 33.40 1.00 34.03	дааа дааа
ATOM ATOM	3229 3230	C 0	LEU			-5.843 -6.313	38.866	59.506	1.00 34.39	AAAA
ATOM	3231	N	LYS			-6.535	40.845	58.475	1.00 35.80	AAAA
ATOM .	3232	CA			430	-7.940	40.635	58.133	1.00 36.74	AAAA
MOTA	3233	CB			430	-8.775	41.767	58.742	1.00 38.45	AAAA
ATOM ATOM	3234 3235	CG CD			430 430	-10.252 -10.956	41.766 40.509	58.367 58.856	1.00 40.34 0.01 39.48	АААА АААА
ATOM	3236	CE			430	-10.941	40.417	60.373	0.01 39.55	AAAA
ATOM	3237	NZ			430	-11.620	41.581	61.003	0.01 39.49	AAAA
MOTA	3238	С			430	-8.255	40.512	56.638	1.00 36.91	AAAA
ATOM	3239	0			430	-9.345	40.065	56.279 55.769	1.00 36.85 1.00 37.07	AAAA AAAA
ATOM ATOM	3240 3241	N CA			431 431	-7.317 -7.554	40.802	54.323	1.00 37.07	AAAA
ATOM	3242	CB			431	-8.325	42.036	53.825	1.00 41.60	AAAA
ATOM	3243	CG	GLU	Α	431	-8.338	42.180	52.287	1.00 45.92	AAAA
MOTA	3244	CD			431	-8.997	43.466	51.799	1.00 48.14	AAAA
ATOM	3245 3246				431 431	-8.576 -9.932	44.557 43.384	52.235 50.971	1.00 48.87 1.00 49.84	AAAA AAAA
ATOM ATOM	3245	C			431	-6.357	40.617	53.406	1.00 33.55	AAAA
ATOM	3248	o			431	-5.345	41.292	53.534	1.00 33.05	AAAA
ATOM	3249	N			432	-6.514	39.714	52.449	1.00 31.23	AAAA
ATOM	3250	CA			432	-5.482	39.447	51.460	1.00 30.79 1.00 29.85	AAAA AAAA
ATOM ATOM	3251 3252	CB CG2			432	-4.898 -3.723	38.020 37.819	51.622 50.655	1.00 27.79	AAAA
ATOM	3253	CG1			432	-4.390	37.843	53.057	1.00 29.53	AAAA
ATOM	3254	CD1	ILE	A	432	-3.771	36.505	53.343	1.00 28.85	AAAA
ATOM	3255	C			432	-6.090	39.647	50.062	1.00 30.16	AAAA
ATOM ATOM	3256 3257	O N			432	-6.424 -6.224	38.696 40.924	49.354 49.705	1.00 29.48 1.00 28.54	AAAA AAAA
ATOM	3258	CA			433	-6.788	41.401	48.446	1.00 26.94	AAAA
ATOM	3259	CB			433	-6.196	42.772	48.086	1.00 24.30	AAAA
ATOM	3260	OG			433	-6.654	43.795	48.935	1.00 21.76	AAAA
ATOM	3261	C			433	-6.634 -7.619	40.498	47.238 46.627	1.00 27.53 1.00 28.23	AAAA AAAA
ATOM ATOM	3262 3263	О И			433	-5.391	40.218	46.881	1.00 27.44	AAAA
ATOM	3264	CA			434	-5.099	39.410	45.713	1.00 28.56	AAAA
MOTA	3265	CB			434	-4.855	40.334	44.524	1.00 28.00	AAAA
ATOM	3266	CG OD1			434	-4.550 -3.986	39.589 40.213	43.245 42.320	1.00 29.39 1.00 31.03	AAAA AAAA
ATOM ATOM	3267 3268				434	-4.876	38.394	43.151	1.00 28.96	AAAA
ATOM	3269	C		-	434	-3.856	38.602	46.005	1.00 29.95	AAAA
ATOM	3270	0			434	-3.291	38.702	47.094	1.00 31.36	AAAA
ATOM	3271	N			435	-3.434	37.797	45.040	1.00 30.06 1.00 32.04	AAAA AAAA
ATOM ATOM	3272 3273	CA C			4 435 4 435	-2.240 -2.398	36.993 35.722	45.221 46.032	1.00 32.04	AAAA
ATOM	3274	Ö			435	-3.365	35.544	46.766	1.00 32.40	AAAA
MOTA	3275	N			436	-1.427	34.833	45.900	1.00 33.12	AAAA
ATOM	3276	CA			436	-1.466	33.579	46.623	1.00 35.15 1.00 36.04	AAAA AAAA
ATOM ATOM	327 <b>7</b> 3278	CB CG			4 436	-0.908 -1.909	32.463 32.000	45.750 44.712	1.00 36.04	AAAA
ATOM	3279				436	-2.845	32.774	44.401	1.00 36.60	AAAA
ATOM	3280				A 436	-1.756	30.873	44.206	1.00 37.05	AAAA
MOTA	3281	С			A 436	-0.734	33.664	47.947	1.00 35.28	AAAA
ATOM	3282	0			436	-0.068 -0.868	34.663 32.616	48.231 48.756	1.00 36.09 1.00 33.59	AAAA AAAA
ATOM ATOM	3283 3284	N CA			A 437 A 437	-0.260	32.586		1.00 33.40	AAAA
ATOM	3285				A 437	-1.322	32.861	51.166	1.00 32.21	AAAA
ATOM	3286				A 437	-0.765	32.524	52.533		AAAA
ATOM	3287				A 437	-1.766	34.315	51.112		AAAA AAAA
ATOM ATOM	3288 3289				A 437 A 437	0.404 -0.275	31.266 30.320			AAAA
ATOM	3290				A 438	1.724	31.194			AAAA
MOTA	3291		IL	E Z	A 438	2.411	29.949	50.598	1.00 31.52	AAAA
ATOM	3292				A 438	3.493	29.628			AAAA AAAA
ATOM	3293				A 438	4.432	30.821			AAAA AAAA
ATOM ATOM	3294 3295				A 438 A 438	4.235 5.406	28.353 27.996			AAAA
ATOM	3290					3.300				

ATOM	3296	С	ILE	Α	438	3.082	29.936	51.967	1.00 32.55	AAAA
ATOM	3297	0	ILE	Α	438	3.809	30.862	52.323	1.00 32.95	AAAA
ATOM	3298	N	ILE			2.847	28.878	52.735	1.00 32.51	AAAA
ATOM	3299	CA	ILE			3.477	28.761	54.041	1.00 32.75	AAAA
										AAAA
ATOM	3300	CB	ILE			2.479	28.970	55.156	1.00 30.28	
MOTA	3301	CG2				3.214	29.094	56.465	1.00 27.97	AAAA
ATOM	3302	CG1	ILE	Α	439	1.668	30.228	54.868	1.00 28.25	AAAA
ATOM	3303	CD1	ILE	Α	439	0.709	30.591	55.932	1.00 29.49	AAAA
ATOM	3304	C	ILE	Α	439	4.081	27.375	54.144	1.00 35.57	AAAA
ATOM	3305	Ō			439	3.455	26.446	54.645	1.00 37.22	AAAA
	3306	N			440	5.314	27.248	53.662	1.00 37.77	AAAA
ATOM										AAAA
ATOM	3307	CA			440	6.021	25.974	53.645	1.00 38.51	
ATOM	3308	CB			440	6.084	25.470	52.199	1.00 39.61	AAAA
ATOM	3309	OG	SER	Α	440	7.011	24.410	52.060	1.00 42.38	AAAA
ATOM	3310	С	SER	Α	440	7.434	26.008	54.225	1.00 37.90	AAAA
ATOM	3311	0	SER	Α	440	8.029	27.077	54.381	1.00 37.99	AAAA
ATOM	3312	N			441	7.953	24.819	54.542	1.00 37.13	AAAA
		CA			441	9.310	24.676	55.057	1.00 36.43	AAAA
ATOM	3313									
ATOM	3314	С			441	9.620	25.180	56.451	1.00 34.98	AAAA
ATOM	3315	0	GLY	A	441	10.775	25.400	56.806	1.00 34.49	AAAA
ATOM	3316	N	ASN	Α	442	8.591	25.361	57.258	1.00 34.88	AAAA
ATOM	3317	CA	ASN	Α	442	8.798	25.853	58,600	1.00 35.54	AAAA
ATOM	3318	CB	ASN	Α	442	7.695	26.855	58.960	1.00 35.53	AAAA
ATOM	3319	CG			442	7.578	27.984	57.941	1.00 35.95	AAAA
ATOM	3320	OD1				8.536	28.720	57.690	1.00 34.75	AAAA
								57.345		AAAA
ATOM	3321	ND2				6.401	28.119		1.00 36.05	
ATOM	3322	С			442	8.824	24.667	59.555	1.00 36.67	AAAA
ATOM	3323	0	ASN	Α	442	7.791	24.182	60.023	1.00 36.72	AAAA
ATOM	3324	N	LYS	Α	443	10.041	24.197	59.800	1.00 37.21	AAAA
ATOM	3325	CA	LYS	Α	443	10.340	23.073	60.677	1.00 36.36	AAAA
ATOM	3326	CB			443	11.756	23.267	61.212	1.00 38.46	AAAA
ATOM	3327	CG			443	12.193	22.401	62.378	1.00 39.32	AAAA
							23.171		1.00 40.78	AAAA
ATOM	3328	CD			443	13.223		63.226		
ATOM	3329	CE			443	14.347	23.779	62.366	1.00 41.65	AAAA
ATOM	3330	NZ	LYS	A	443	15.325	24.643	63.113	1.00 42.99	AAAA
ATOM	3331	С	LYS	Α	443	9.365	22.850	61.833	1.00 35.56	AAAA
ATOM	3332	0	LYS	Α	443	8.922	21.728	62.051	1.00 35.95	AAAA
ATOM	3333	N	ASN	Α	444	9.015	23.907	62.561	1.00 34.71	AAAA
ATOM	3334	CA			444	8.114	23.764	63.710	1.00 33.50	AAAA
ATOM	3335	CB			444	8.822	24.288	64.950	1.00 32.55	AAAA
						10.259	23.864	65.003	1.00 34.08	AAAA
ATOM	3336	CG			444					
MOTA	3337		ASN			10.559	22.675	64.950	1.00 35.70	AAAA
ATOM	3338	ND2	ASN	A	444	11.166	24.832	65.104	1.00 33.88	AAAA
ATOM	3339	C	ASN	Α	444	6.731	24.423	63.616	1.00 32.72	AAAA
MOTA	3340	0	ASN	Α	444	5.808	24.035	64.317	1.00 32.89	AAAA
ATOM	3341	N	LEU	Α	445	6.597	25.424	62.762	1.00 31.43	AAAA
ATOM	3342	CA	LEU	Α	445	5.348	26.144	62.598	1.00 30.97	AAAA
ATOM	3343	CB			445	5.424	26.956	61.318	1.00 31.15	AAAA
ATOM	3344	CG			445	4.141	27.650	60.897	1.00 30.61	AAAA
								61.897	1.00 31.45	AAAA
ATOM	3345				445	3.770	28.729			
ATOM	3346				445	4.357	28.227	59.536	1.00 31.29	AAAA
ATOM	3347	С	LEU	A	445	4.059	25.325	62.581	1.00 32.39	AAAA
ATOM	3348	0	LEU	Α	445	3.887	24.429	61.757	1.00 32.40	AAAA
ATOM	3349	N	CYS	Α	446	3.143	25.662	63.481	1.00 33.27	AAAA
ATOM	3350	CA	CYS	А	446	1.854	25.000	63.559	1.00 35.69	AAAA
ATOM	3351	С			446	0.742	26.041	63.620	1.00 36.63	AAAA
ATOM	3352	0			446	0.998	27.234	63.417	1.00 38.60	AAAA
ATOM	3353	СВ			446	1.792	24.089	64.779	1.00 39.70	AAAA
									1.00 47.79	AAAA
ATOM	3354	SG			446	2.643	22.489	64.527		
MOTA	3355	N			447	-0.484	25.602	63.904	1.00 35.15	AAAA
ATOM	3356	CA	TYR	. A	447	-1.650	26.495	63.975	1.00 33.56	AAAA
ATOM	3357	CB	TYR	. A	447	-1.422	27.689	64.922	1.00 30.69	AAAA
ATOM	3358	CG	TYR	A	447	-0.796	27.382	66.254	1.00 26.92	AAAA
ATOM	3359				447	0.571	27.481	66.420	1.00 29.14	· AAAA
ATOM	3360				447	1.174	27.188	67.631	1.00 30.13	AAAA
	3361				447	-1.563	26.981	67.344	1.00 26.04	AAAA
ATOM									1.00 27.24	AAAA
ATOM	3362				447	-0.971	26.683	68.569		AAAA
ATOM	3363	CZ			447	0.408	26.789	68.699	1.00 28.35	
MOTA	3364	OH			447	1.059	26.497	69.869	1.00 27.10	AAAA
ATOM	3365	С	TYR	. A	447	-1.940	27.054	62.589	1.00 34.49	AAAA
ATOM	3366	0	TYR	A	447	-3.099	27.243	62.211	1.00 35.61	AAAA
ATOM	3367	N			448	-0.859	27.315	61.852	1.00 35.23	AAAA
ATOM	3368	CA			448	-0.856	27.862	60.492	1.00 35.50	AAAA
ATOM	3369	CB			448	0.575	27.881	59.968	1.00 34.22	AAAA
ATOM	3370	СВ			448	~1.739	27.154	59.477	1.00 35.73	AAAA
VIOL	2210	_	пшМ		440	-1.139	2134	33.411		•

N III OM	2271	^	ALA 2	7	440	-1.638	27 422	E0 202	1.00 3	6 20	AAAA
ATOM	3371						27.422	58.292			
MOTA	3372	N	ASN 2	A	449	-2.606	26.261	59.924	1.00 3	6.86	AAAA
MOTA	3373	CA	ASN 2	Α	449	-3.450	25.528	59.000	1.00 3	7.86	AAAA
ATOM	3374		ASN I	Δ	449	-2.951	24.092	58.890	1.00 3	7 97	AAAA
MOTA	3375		ASN .			-3.117	23.523	57.502	1.00 3		AAAA
A <b>T</b> OM	3376	OD1	ASN 2	A	449	-2.659	24.107	56.521	1.00 3	8.36	AAAA
ATOM	3377	ND2	ASN I	Α	449	-3.762	22.372	57.412	1.00 3	7.99	AAAA
ATOM	3378		ASN .			-4.857	25.534	59.532	1.00 3		AAAA
ATOM	3379	0	ASN :	Α	449	-5.809	25.156	58.854	1.00 3	9.70	AAAA
ATOM	3380	N	THR :	Α	450	-4.980	25.959	60.773	1.00 3	9.32	AAAA
			THR				26.017				AAAA
MOTA	3381	CA				-6.270		61.415	1.00 4		
ATOM	3382	CB	THR .	A	450	-6.088	26.451	62.861	1.00 4	0.14	AAAA
ATOM	3383	OG1	THR .	A	450	-5.651	27.811	62.884	1.00 4	1.30	AAAA
ATOM	3384	CG2	THR .	Δ	450	-5.017	25.612	63.534	1.00 3	9 48	AAAA
ATOM	3385	С	THR .	А	450	-7.111	27.055	60.670	1.00 4	1.64	AAAA
ATOM	3386	0	THR .	Α	450	-8.290	26.834	60.360	1.00 4	1.96	AAAA
ATOM	3387	N	ILE	Α	451	-6.452	28.174	60.373	1.00 4	2.24	AAAA
	3388	CA	ILE			-7.015	29.342	59.693	1.00 4		AAAA
MOTA											
MOTA	3389	CB	ILE	A	451	-5.905	30.356	59.376	1.00 4	2.69	AAAA
ATOM	3390	CG2	ILE	Α	451	-6.446	31.780	59.523	1.00 4	2.92	AAAA
ATOM	3391		ILE			-4.719	30.113	60.320	1.00 4		AAAA
ATOM	3392		ILE			-3.500	30.940	60.048	1.00 4		AAAA
MOTA	3393	С	ILE	A	451	-7.742	29.058	58.399	1.00 3	9.85	AAAA
ATOM	3394	0	ILE	Α	451	-7.274	28.301	57.569	1.00 3	9.89	AAAA
	3395						29.693				AAAA
ATOM		И	ASN			-8.888		58.217	1.00 3		
ATOM	3396	CA	ASN	A	452	-9.664	29.505	56.997	1.00 3	8.45	AAAA
ATOM	3397	CB	ASN	Α	452	-11.152	29.543	57.328	1.00 4	0.23	AAAA
ATOM	3398	CG	ASN	Δ	452	-12.015	29.376	56.113	1.00 4	3.01	AAAA
ATOM	3399		ASN			-11.518	29.101	55.016	1.00 4		AAAA
MOTA	3400	ND2	ASN	Α	452	-13.321	29.530	56.293	1.00 4	4.27	AAAA
ATOM	3401	C	ASN	Α	452	-9.320	30.611	56.007	1.00 3	6.31	AAAA
ATOM	3402	0	ASN			-10.105	31.539	55.834	1.00 3	5 81	AAAA
ATOM	3403	N	TRP			-8.161	30.484	55.352	1.00 3		AAAA
ATOM	3404	CA	TRP	Α	453	-7.635	31.475	54.402	1.00 3	2.35	AAAA
ATOM	3405	CB	TRP	Α	453	-6.336	30.967	53.775	1.00 3	2.16	AAAA
ATOM	3406	CG	TRP			-5.264	30.590	54.742	1.00 3		AAAA
MOTA	3407	CD2	TRP	A	453	-4.229	31.437	55.248	1.00 3	0.49	AAAA
ATOM	3408	CE2	TRP	Α	453	-3.427	30.651	56.103	1.00 3	1.08	AAAA
MOTA	3409	CE3	TRP	А	453	-3.898	32.781	55.061	1.00 2	9.15	AAAA
	3410		TRP						1.00 3		AAAA
ATOM						-5.059	29.364	55.297			
ATOM	3411	NE1	TRP	Α	453	-3.955	29.389	56.115	1.00 3	30.37	AAAA
ATOM	3412	CZ2	TRP	Α	453	-2.313	31.168	56.769	1.00 3	0.66	AAAA
ATOM	3413		TRP			-2.789	33.294	55.723	1.00 3	80.08	AAAA
											AAAA
ATOM	3414		TRP			-2.011	32.488	56.566	1.00 2		
ATOM	3415	С	TRP	Α	453	 -8.530	32.006	53.276	1.00 3	32.12	AAAA
ATOM	3416	0	TRP	Α	453	-8.474	33.194	52.960	1.00 2	9.24	AAAA
ATOM	3417	N	LYS			-9.333	31.138	52.662	1.00 3		AAAA
MOTA	3418	CA	LYS	Α	454	-10.225	31.556	51.575	1.00 3		AAAA
ATOM	3419	CB	LYS	Α	454	-10.877	30.340	50.911	1.00 3	34.70	AAAA
ATOM	3420	CG	LYS	Α	454	-9.890	29.351	50.314	0.01 3	34.47	AAAA
ATOM	3421	CD	LYS			-10.608	28.159	49.703	0.01 3		AAAA
MOTA	3422	CE	LYS	A	454	-9.625	27.165	49.109	0.01 3	34.18	AAAA
MOTA	3423	NZ	LYS	Α	454	-10.317	25.991	48.510	0.01 3	34.49	AAAA
ATOM	3424	С	LYS	Α	454	-11.307	32.469	52.126	1.00 3	36.28	AAAA
ATOM	3425	Ö			454	-12.452	32.462	51.663	1.00 3		AAAA
ATOM	3426	N			455	-10.928	33.253	53.125	1.00 3		AAAA
ATOM	3427	CA	LYS	Α	455	-11.837	34.176	53.780	1.00 3	36.33	AAAA
ATOM	3428	CB	LYS	Α	455	-12.326	33.579	55.105	1.00 3	36.66	AAAA
ATOM	3429	CG			455	-13.176	32.327	54.959	0.01 3		AAAA
ATOM	3430	CD			455	-14.523	32.634	54.324	0.01 3		AAAA
ATOM	3431	CE	LYS	Α	455	-15.326	33.612	55.169	0.01 3	35.84	AAAA
ATOM	3432	NZ	LYS	Α	455	-15.561	33.097	56.547	0.01 3	35.72	AAAA
ATOM	3433	C			455	-11.114	35.495	54.033	1.00		AAAA
MOTA	3434	0			455	-11.647	36.405	54.667	1.00		AAAA
ATOM	3435	N	LEU	Α	456	-9.890	35.582	53.538	1.00	33.47	AAAA
ATOM	3436	CA			456	-9.095	36.784	53.678	1.00	32.31	AAAA
									1.00		AAAA
MOTA	3437	CB			456	-7.699	36.443	54.208			
MOTA	3438	CG	LEU	Α	456	-7.466	35.741	55.546	1.00	28.94	AAAA
ATOM	3439	CD1	LEU			-6.089	35.146	55.559	1.00 2	27.55	AAAA
									1.00		AAAA
ATOM	3440		LEU			-7.605	36.717	56.676			
MOTA	3441	С	LEU	Α	456	-8.958	37.287	52.254	1.00		AAAA
MOTA	3442	0	LEU	Α	456	-8.446	38.382	52.010	1.00	34.35	AAAA
									1.00		AAAA
	3443	N	PHE	71	0 - 1	-4 // //					
ATOM	3443	N	PHE			-9.422	36.462	51.316			
ATOM ATOM	3444	CA	PHE	A	457	-9.309	36.760	49.893	1.00	31.56	AAAA
ATOM			PHE	A						31.56	

									•	
ATOM	3446	CG	PHE	Α	457	-8.169	34.516	49.463	1.00 29.22	AAAA
ATOM	3447	CD1				-6.913	34.998	49.803	1.00 30.34	AAAA
ATOM	3448	CD2				-8.365	33.142	49.443	1.00 29.39	AAAA
ATOM	3449	CE1	PHE	Α	457	-5.868	34.124	50.118.		AAAA
ATOM	3450	CE2	PHE	Α	457	-7.335	32.264	49.753	1.00 29.22	AAAA
MOTA	3451	CZ	PHE	Α	457	-6.082	32.757	50.092	1.00 30.03	AAAA
ATOM	3452	С	PHE			-10.378	37.687	49.328	1.00 31.52	AAAA
							37.979	49.991	1.00 30.79	AAAA
ATOM	3453	0	PHE			-11.374				
MOTA	3454	N	GLY			-10.147	38.140	48.093	1.00 31.16	AAAA
ATOM	3455	CA	GLY	Α	458	-11.065	39.033	47.398	1.00 30.79	AAAA
MOTA	3456	С	GLY	Α	458	-11.057	38.781	45.899	1.00 30.26	AAAA
ATOM	3457	0	GLY			-12.066	38.916	45.211	1.00 31.05	AAAA
						-9.898		45.387	1.00 29.66	AAAA
ATOM	3458	N_	THR				38.407			
ATOM	3459	CA	THR			-9.744	38.116	43.977	1.00 29.42	AAAA
ATOM	3460	CB	THR	Α	459	-8.263	38.248	43.567	1.00 28.95	AAAA
ATOM	3461	OG1	THR	Α	459	-7.856	39.614	43.703	1.00 26.46	AAAA
ATOM	3462	CG2	THR	A	459	-8.048	37.795	42.130	1.00 29.67	AAAA
ATOM	3463	C			459	-10.246	36.697	43.694	1.00 30.00	AAAA
MOTA	3464	0			459	-10.563	35.946	44.616	1.00 30.23	AAAA
ATOM	3465	N	SER	Α	460	-10.339	36.347	42.418	1.00 30.26	AAAA
ATOM	3466	CA	SER	Α	460	-10.794	35.030	42.012	1.00 31.41	AAAA
ATOM	3467	CB	SER	Α	460	-11.775	35.148	40.832	1.00 32.22	AAAA
ATOM	3468	OG			460	-12.262	33.882	40.402	1.00 32.60	AAAA
								41.604	1.00 32.05	AAAA
MOTA	3469	C			460	-9.544	34.269			
MOTA	3470	0	SER	A	460	-8.670	34.810	40.931	1.00 32.57	AAAA
ATOM	3471	N	GLY	Α	461	-9.449	33.019	42.027	1.00 32.21	AAAA
ATOM	3472	CA	GLY	Α	461	-8.278	32.233	41.693	1.00 34.05	AAAA
MOTA	3473	С	GI.Y	Α	461	-7.304	32.197	42.859	1.00 34.53	AAAA
ATOM						-6.402		42.924	1.00 33.47	AAAA
	3474	0			461		31.351			
ATOM	3475	N			462	-7.477	33.127	43.790	1.00 34.78	AAAA
ATOM	3476	CA	GLN	Α	462	-6.598	33.154	44.935	1.00 35.20	AAAA
ATOM	3477	CB	GLN	Α	462	-7.076	34.183	45.970	1.00 34.08	AAAA
ATOM	3478	CG	GLN	Α	462	-6.721	35.628	45.586	1.00 32.71	AAAA
ATOM	3479	CD			462	-6.696	36.584	46.763	1.00 31.87	AAAA
										AAAA
ATOM	3480	OE1				-7.724	37.088	47.186	1.00 31.81	
MOTA	3481	NE2	GLN	A	462	-5.512	36.826	47.302	1.00 31.66	AAAA
MOTA	3482	С	GLN	Α	462	-6.596	31.748	45.499	1.00 36.30	AAAA
MOTA	3483	0	GLN	Α	462	-7.624	31.083	45.536	1.00 35.91	AAAA
ATOM	3484	N			463	-5.423	31.268	45.887	1.00 38.07	AAAA
ATOM	3485	CA			463	-5.332	29.928	46.438	1.00 38.50	AAAA
										AAAA
ATOM	3486	CB			463	-5.164	28.884	45.326	1.00 37.44	
ATOM	3487	CG	LYS	A	463	-3.857	28.940	44.590	1.00 39.00	AAAA
ATOM	3488	CD	LYS	A	463	-3.862	28.011	43.392	1.00 40.11	AAAA
MOTA	3489	CE	LYS	Α	463	-2.595	28.196	42.567	1.00 41.03	AAAA
ATOM	3490	NZ			463	-2.655	27.524	41.240	1.00 42.11	AAAA
		C			463	-4.201	29.829	47.444	1.00 38.32	7777
MOTA	3491									, AAAA AAAA
ATOM	3492	0			463	-3.225	30.580	47.399	1.00 37.95	
MOTA	3493	N	THR	Α	464	-4.365	28.883	48.355	1.00 37.81	AAAA
ATOM	3494	CA	THR	Α	464	-3.430	28.645	49.427	1.00 36.34	AAAA
ATOM	3495	CB	THR	Α	464	-4.241	28.371	50.709	1.00 35.59	AAAA
ATOM	3496		THR			-4.096	29.484	51.601	1.00 34.42	AAAA
						-3.831	27.058	51.364	1.00 33.90	AAAA
MOTA	3497		THR							
ATOM	3498	C			464	-2.470	27.501	49.108	1.00 36.24	AAAA
MOTA	3499	0			464	-2.794	26.627	48.317	1.00 36.37	AAAA
ATOM	3500	N	LYS	Α	465	-1.285	27.520	49.712	1.00 36.25	AAAA
ATOM	3501	CA			465	-0.307	26.465	49.478	1.00 37.12	AAAA
ATOM	3502	СВ			465	0.672	26.886	48.386	1.00 36.43	AAAA
						0.030		47.032	0.01 36.25	AAAA
ATOM	3503	CG			465					AAAA
ATOM	3504	CD			465	-0.620	25.915	46.447	0.01 35.95	
ATOM	3505	CE			465	0.401	24.816	46.190	0.01 35.83	AAAA
MOTA	3506	NZ	LYS	Α	465	-0.233	23.593	45.624	0.01 35.53	AAAA
MOTA	3507	С			465	0.486	26.030	50.711	1.00 37.50	AAAA
ATOM	3508	ō			465	1.682	25.790	50.608	1.00 38.30	AAAA
ATOM	3509	N			466	-0.181	25.917	51.859	1.00 37.70	AAAA
										AAAA
ATOM	3510	CA			466	0.451	25.497	53.118	1.00 37.92	
ATOM	3511	CB			466	-0.529	25.656	54.323	1.00 36.78	AAAA
ATOM	3512	CG2	ILE	Α	466	0.058	25.033	55.564	1.00 36.50	AAAA
MOTA	3513	CG1	ILE	Α	466	-0.813	27.125	54.599	1.00 37.03	AAAA
ATOM	3514				466	-1.622	27.798	53.541	1.00 38.09	AAAA
ATOM	3515				466	0.912	24.029	53.086	1.00 38.09	AAAA
		C								
MOTA	3516	0			466	0.105	23.121	52.951	1.00 38.82	AAAA
MOTA	3517	N	ILE	A	467	2.207	23.795	53.239	1.00 38.47	AAAA
MOTA	3518	ÇA	ILE	Α	467	2.723	22.432	53.217	1.00 39.02	AAAA
ATOM	3519	CB			467	2.720	21.858	51.773	1.00 38.79	AAAA
ATOM	3520				467.	3.664	22.673	50.888	1.00 36.81	AAAA
	2220	J32	شاك ب		, .	2.004	0/3	55.500		

ATOM	3521	CG1	ILE A	467	3.170	20.393	51.777	1.00 38.02	AAAA
							52.566	0.01 38.24	AAAA
ATOM	3522		ILE A		2.265	19.473			
MOTA	3523	С	ILE A	467	4.149	22.359	53.758	1.00 39.47	AAAA
ATOM	3524	0	ILE A	467	4.855	23.361	53.833	1.00 38.89	AAAA
ATOM	3525	N	SER A		4.554	21.156	54.140	1.00 39.91	AAAA
MOTA	3526	CA	SER A	468	5.885	20.897	54.659	1.00 40.96	AAAA
ATOM	3527	CB	SER A	468	6.910	21.099	53.540	1.00 42.91	AAAA
ATOM	3528	OG	SER P		8.169	20.550	53.891	1.00 45.03	AAAA
MOTA	3529	С	SER A	468	6.288	21.711	55.892	1.00 40.32	AAAA
ATOM	3530	0	SER A	468	7.409	22.198	55.974	1.00 40.41	AAAA
ATOM	3531	N	ASN A		5.381	21.860	56.850	1.00 39.89	AAAA
MOTA	3532	CA	ASN P	469	5.708	22.587	58.069	1.00 40.52	AAAA
ATOM	3533	CB	ASN A	469	4.645	23.649	58.346	1.00 40.07	AAAA
ATOM	3534	CG	ASN A	469	4.538	24.677	57.209	1.00 41.77	AAAA
							56.862	1.00 41.82	AAAA
MOTA	3535		ASN A		5.514	25.345			
ATOM	3536	ND2	ASN A	4 469	3.350	24.799	56.627	1.00 41.27	AAAA
ATOM	3537	С	ASN A	469	5.813	21.550	59.197	1.00 42.02	AAAA
ATOM	3538	Ō	ASN A		6.397	20.484	58.988	1.00 43.25	AAAA
MOTA	3539	N	ARG A	4 470	5.281	21.811	60.387	1.00 42.14	AAAA
ATOM	3540	CA	ARG A	470	5.407	20.785	61.418	1.00 40.43	AAAA
ATOM	3541	CB	ARG A		5.355	21.379	62.824	1.00 39.77	AAAA
									AAAA
MOTA	3542	CG	ARG A	4 4 / 0	5.799	20.392	63.913	1.00 39.14	
ATOM	3543	CD	ARG A	470	5.368	20.892	65.261	1.00 40.19	AAAA
ATOM	3544	NE	ARG A	470	5.909	20.135	66.377	1.00 40.49	AAAA
								1.00 42.52	AAAA
ATOM	3545	CZ		A 470	7.153	20.255	66.817		
ATOM	3546	NH1	ARG A	A 470	7.986	21.103	66.226	1.00 41.38	AAAA
ATOM	3547	NH2	ARG A	A 470	7.558	19.541	67.864	1.00 43.86	AAAA
									AAAA
ATOM	3548	С		A 470	4.311	19.744	61.271	1.00 40.14	
MOTA	3549	0	ARG A	A 470	3.179	20.063	60.895	1.00 38.57	AAAA
ATOM	3550	N	GLY 2	A 471	4.659	18.499	61.578	1.00 40.23	AAAA
				A 471				1.00 41.41	AAAA
MOTA	3551	CA			3.709	17.410	61.468		
ATOM	3552	С	GLY A	A 471	2.387	17.692	62.143	1.00 42.39	AAAA
ATOM	3553	0	GLY A	A 471	2.361	18.105	63.302	1.00 43.59	AAAA
ATOM	3554	N		A 472	1.290	17.467	61.423	1.00 42.47	AAAA
ATOM	3555	CA	GLU A	A 472	-0.039	17.705	61.967	1.00 42.45	AAAA
ATOM	3556	CB	GLU :	A 472	-1.114	17.359	60.934	1.00 44.95	AAAA
ATOM	3557	CG	GLU	A 472	-2.542	17.580	61.433	1.00 49.05	AAAA
									AAAA
ATOM	3558	CD		A 472	-3.559	17.658	60.305	1.00 51.94	
ATOM	3559	OE1	GLU :	A 472	-3.690	16.669	59.553	1.00 53.46	AAAA
ATOM	3560	OE2	GLU :	A 472	-4.226	18.710	60.165	1.00 53.20	AAAA
ATOM	3561	C		A 472	-0.260	16.893	63.229	1.00 41.34	AAAA
ATOM	3562	0	GLU .	A 472	-0.864	17.371	64.190	1.00 40.54	AAAA
MOTA	3563	N	ASN .	A 473	0.243	15.665	63.229	1.00 40.78	AAAA
ATOM	3564	CA	ASN	A 473	0.090	14.798	64.384	1.00 40.52	AAAA
									AAAA
MOTA	3565	CB	ASN.	A 473	0.245	13.333	63.972	1.00 39.35	
ATOM	3566	CG	ASN	A 473	-0.960	12.821	63.206	1.00 38.36	AAAA
ATOM	3567	OD1	ASN	A 473	-2.093	13.194	63.496	1.00 40.17	AAAA
					-0.725	11.960	62.237	1.00 36.04	AAAA
ATOM	3568			A 473					
MOTA	3569	С	ASN	A 473	1.048	15.138	65.513	1.00 40.48	AAAA
MOTA	3570	0	ASN	A 473	0.753	14.884	66.675	1.00 40.39	AAAA
ATOM	3571	N		A 474	2.186	15.731	65.174	1.00 41.21	AAAA
									AAAA
MOTA	3572	CA		A 474	3.172	16.114	66.179	1.00 41.74	
MOTA	3573	CB	SER	A 474	4.490	16.517	65.520	1.00 42.75	AAAA
MOTA	3574	OG	SER	A 474	5.458	16.877	66.493	1.00 42.97	AAAA
ATOM	3575	C		A 474	2.709	17.267	67.056	1.00 41.83	AAAA
ATOM	3576	0		A 474	3.069	17.337	68.230	1.00 41.31	AAAA
ATOM	3577	N	CYS	A 475	1.929	18.182	66.490	1.00 42.28	AAAA
ATOM	3578	CA		A 475	1.464	19.316	67.272	1.00 43.71	AAAA
					0.277	19.002	68.154	1.00 43.43	AAAA
ATOM	3579	C		A 475					
MOTA	3580	0	CYS	A 475	0.045	19.683	69.149	1.00 42.98	AAAA
ATOM	3581	CB	CYS	A 475	1.183	20.531	66.376	1.00 45.39	AAAA
ATOM	3582	SG		A 475	2.638		66.358	1.00 48.66	AAAA
									AAAA
ATOM	3583	N		A 476	-0.469		67.799	1.00 44.54	
MOTA	3584	CA	LYS	A 476	-1.604	17.554	68.611	1.00 44.92	AAAA
MOTA	3585	CB		A 476	-2.564	16.669	67.805	1.00 46.30	AAAA
									AAAA
MOTA	3586	CG		A 476	-3.308			1.00 49.77	
MOTA	3587	CD	LYS	A 476	-4.469	16.612	66.105	1.00 50.88	AAAA
ATOM	3588	CE		A 476	-5.565		67.136	1.00 52.46	AAAA
									AAAA
ATOM	3589	NZ		A 476	-6.234		67.657	1.00 52.22	
ATOM	3590	C	LYS	A 476	-1.021	16.784	69.785	1.00 43.70	AAAA
ATOM	3591	0	LYS	A 476	-1.484	16.898	70.913	1.00 42.62	AAAA
				A 477	0.020			1.00 43.91	AAAA
ATOM	3592	N							
ATOM	3593	CA	ALA	A 477	0.684	15.228	70.541		AAAA
ATOM	3594	CB	ALA	A 477	1.651	14.245	69.900	1.00 43.98	AAAA
ATOM	3595	C		A 477	1.429				AAAA
VIOL	2223	C	THE	** 3//	1.473	10.100	.1.500	1.00 40.09	

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ATOM	3596	0	ALA	А	477	1.997	15.708	72.510	1.00 46.47	AAAA
ATOM	3597	N	THR			1.413	17.452	71.201	1.00 45.95	AAAA
MOTA	3598	CA	THR	А	478	2.079	18.455	72.022	1.00 45.97	AAAA
MOTA	3599	CB	THR	А	478	3.194	19.139	71.235	1.00 47.35	AAAA
MOTA	3600	OG1				2.667	19.624	69.994	1.00 48.29	AAAA
ATOM	3601		THR			4.331	18.158	70.958	1.00 48.15	AAAA
MOTA	3602	C	THR			1.096	19.516	72.504	1.00 45.78	AAAA AAAA
ATOM	3603	0	THR			1.472	20.456	73.206 72.114	1.00 45.48 1.00 45.51	AAAA
ATOM ATOM	3604 3605	N CA	GLY GLY			-0.165 -1.198	19.361 20.293	72.119	1.00 45.02	AAAA
ATOM	3606	C	GLY			-1.161	21.628	71.821	1.00 44.38	AAAA
ATOM	3607	ō	GLY			-1.964	22.517	72.093	1.00 44.00	AAAA
ATOM	3608	N	GLN			-0.216	21.789	70.914	1.00 44.26	AAAA
ATOM	3609	CA	GLN	Α	480	-0.141	23.033	70.194	1.00 44.70	AAAA
MOTA	3610	CB			480	1.174	23.123	69.453	1.00 43.41	AAAA
MOTA	3611	CG			480	2.238	23.726	70.313	1.00 45.41	AAAA
ATOM	3612	CD			480	3.593	23.181	69.997	1.00 46.61 1.00 47.52	AAAA AAAA
ATOM	3613	NE2	GLN			3.837 4.493	21.989 24.045	70.165 69.536	1.00 47.32	AAAA
ATOM ATOM	3614 3615	C			480	-1.307	23.130	69.242	1.00 45.62	AAAA
ATOM	3616	0			480	-1.143	23.029	68.034	1.00 47.24	AAAA
ATOM	3617	N			481	-2.495	23.297	69.806	1.00 45.94	AAAA
MOTA	3618	CA	VAL	Α	481	-3.717	23.438	69.031	1.00 46.55	AAAA
MOTA	3619	CB	VAL	Α	481	-4.674	22.262	69.254	1.00 47.01	AAAA
ATOM	3620		VAL			-4.101	21.009	68.630	1.00 48.04	AAAA
ATOM	3621		VAL			-4.911	22.060	70.745	1.00 46.70	AAAA AAAA
ATOM	3622	C			481	-4.395 -4.158	24.710 25.160	69.507 70.626	1.00 47.11	AAAA
ATOM ATOM	3623 3624	И			481 482	-5.240	25.290	68.668	1.00 47.72	AAAA
ATOM	3625	CA			482	-5.923	26.521	69.035	1.00 49.35	AAAA
ATOM	3626	C			482	-6.569	26.453	70.421	1.00 50.08	AAAA
ATOM	3627	0	CYS	Α	482	-7.290	25.513	70.726	1.00 50.90	AAAA
MOTA	3628	CB			482	-6.958	26.867	67.969	1.00 48.77	AAAA
ATOM	3629	SG			482 483	-6.204 -6.301	27.303 27.452	66.371 71.257	1.00 47.60 1.00 50.64	AAAA AAAA
ATOM ATOM	3630 3631	N CA			483	-6.846	27.480	72.610	1.00 52.07	AAAA
ATOM	3632	CB			483	-6.555	28.834	73.266	1.00 51.72	AAAA
ATOM	3633	CG			483	-6.993	28.923	74.696	0.01 51.67	AAAA
ATOM	3634		HIS			-6.284	29.103	75.835	0.01 51.51	AAAA
ATOM	3635		HIS			-8.313	28.821	75.079	0.01 51.49 0.01 51.54	AAAA AAAA
MOTA	3636 3637		HIS HIS			-8.399 -7.182	28.935 29.107	76.392 76.875	0.01 51.54	AAAA
ATOM ATOM	3638	C			483	-8.348	27.201	72.632	1.00 52.81	AAAA
ATOM	3639	ō			483	-9.064	27.535	71.690	1.00 52.72	AAAA
ATOM	3640	N	ALA	A	484	-8.811	26.583	73.718	1.00 53.64	AAAA
ATOM	3641	CA			484	-10.220	26.245	73.898	1.00 54.13	AAAA
ATOM	3642	CB			484	-10.396	25.458	75.177	1.00 53.89	AAAA AAAA
ATOM	3643	C			484	-11.090 -11.170	27.490 28.165	73.938 74.965	1.00 55.36 1.00 54.99	AAAA
ATOM ATOM	3644 3645	о N			484 485	-11.741	27.782	72.815	1.00 57.00	AAAA
ATOM	3646	CA			485	-12.614	28.952	72.682	1.00 58.61	AAAA
ATOM	3647	CB			485	-11.905	30.211	73.210	1.00 58.09	AAAA
ATOM	3648	CG	LEU	Α	485	-12.725	31.482	73.464	0.01 58.18	AAAA
ATOM	3649		LEU			-11.856	32.495	74.192	0.01 58.09 0.01 58.08	AAAA AAAA
ATOM	3650				485 485	-13.241 -12.950	32.063 29.145	72.158 71.205	1.00 59.34	AAAA
ATOM ATOM	3651 3652	0			485	-13.959	28.641	70.705	1.00 60.33	AAAA
ATOM	3653	N			486	-12.065	29.885	70.540	1.00 59.08	AAAA
ATOM	3654	CA			486	-12.095	30.244	69.120	1.00 58.26	AAAA
ATOM	3655	С	CYS	A	486	-12.813	29.262	68.193	1.00 58.06	AAAA
MOTA	3656	0			486	-12.186	28.478	67.492	1.00 58.68	AAAA
ATOM	3657	CB			486	-10.638	30.444	68.704 70.229	1.00 57.73 1.00 57.63	AAAA AAAA
ATOM	3658	SG			486	-9.702 -14.137	30.787 29.331	68.173	1.00 58.49	AAAA
ATOM ATOM	3659 3660	N CA			487	-14.945	28.432	67.350	1.00 59.92	AAAA
ATOM	3661	CB			487	-16.428	28.567	67.733	1.00 60.61	AAAA
ATOM	3662	OG			487	-16.879	29.912	67.654	1.00 60.79	AAAA
ATOM	3663	С			487	-14.803	28.592	65.837	1.00 60.28	AAAA
ATOM	3664	0			487	-14.890	27.609	65.090	1.00 59.82 1.00 60.62	AAAA AAAA
ATOM	3665	N CD			488	-14.589 -14.443	29.831 31.104	65.360 66.094	1.00 60.82	AAAA
ATOM ATOM	3666 3667	CA			488	-14.451	30.055	63.918	1.00 60.37	AAAA
ATOM	3668	СВ			488	-14.551	31.574	63.802	1.00 60.64	AAAA
ATOM	3669	CG			488	-13.859	32.026	65.035	1.00 60.46	AAAA
MOTA	3670	С	PRC	) A	488	-13.149	29.537	63.339	1.00 59.45	AAAA

ATOM	3671	0	PRO	Δ	488	-1	2.725	28.410	63.600	1.00 58.16	AAAA
		N	GLU				2.535	30.392	62.535	1.00 59.56	AAAA
ATOM	3672								61.900	1.00 59.98	AAAA
MOTA	3673	CA	GLU				1.269	30.099			AAAA
ATOM	3674	CB	GLU				0.870	31.266	61.000	1.00 61.61	
ATOM	3675	CG	GLU	Α	489		1.728	31.427	59.738	1.00 64.90	AAAA
ATOM	3676	CD	GLU	Α	489	-1	3.178	30.966	59.904	1.00 66.41	AAAA
ATOM	3677	OE1	GLU	Α	489	-1	3.886	31.466	60.807	1.00 66.57	AAAA
ATOM	3678	OE2	GLU	Α	489	-1	3.610	30.097	59.115	1.00 66.81	AAAA
ATOM	3679	C	GLU				0.258	29.913	63.021	1.00 59.06	AAAA
ATOM	3680	ŏ	GLU				0.252	30.668	63.997	1.00 59.68	AAAA
								28.897	62.869	1.00 57.33	AAAA
ATOM	3681	N	GLY				9.414				AAAA
ATOM	3682	CA			490		8.406	28.560	63.860	1.00 52.98	
ATOM	3683	С			490		7.843	29.623	64.784	1.00 49.98	AAAA
MOTA	3684	0	GLY	Α	490	-	8.530	30.167	65.645	1.00 49.15	AAAA
MOTA	3685	N	CYS	Α	491	_	6.563	29.908	64.598	1.00 47.32	AAAA
MOTA	3686	CA	CYS	Α	491	-	5.865	30.866	65.425	1.00 44.67	AAAA
ATOM	3687	С	CYS	А	491	_	4.501	31.082	64.812	1.00 43.67	AAAA
ATOM	3688	ō			491		4.130	30.394	63.864	1.00 42.66	AAAA
	3689	CB			491		5.695	30.285	66.814	1.00 45.50	AAAA
ATOM								28.695	66.829	1.00 45.74	AAAA
MOTA	3690	SG			491		4.799				
ATOM	3691	N			492		3.753	32.036	65.357	1.00 42.25	AAAA
ATOM	3692	CA	TRP	A	492	_	2.409	32.322	64.867	1.00 40.51	AAAA
ATOM	3693	CB	TRP	Α	492	-	-2.250	33.817	64.596	1.00 38.02	AAAA
ATOM	3694	CG	TRP	Α	492	-	3.260	34.308	63.619	1.00 36.85	AAAA
ATOM	3695	CD2	TRP	Α	492	_	3.164	34.257	62.190	1.00 35.98	AAAA
ATOM	3696		TRP				-4.378	34.743	61.675	1.00 35.57	AAAA
ATOM	3697	CE3			492		-2.167	33.844	61.297	1.00 35.55	AAAA
	3698		TRP				-4.491	34.811	63.901	1.00 35.69	AAAA
ATOM									62.741	1.00 36.04	AAAA
ATOM	3699	NE1			492		-5.170	35.076			AAAA
MOTA	3700				492		-4.627	34.826	60.303	1.00 35.05	
ATOM	3701	CZ3	TRP	Α	492		-2.413	33.928	59.938	1.00 35.74	AAAA
MOTA	3702	CH2	TRP	Α	492	-	-3.635	34.416	59.454	1.00 35.27	AAAA
ATOM	3703	С	TRP	Α	492	-	-1.384	31.858	65.882	1.00 40.22	AAAA
ATOM	3704	0	TRP	Α	492	-	-0.176	31.942	65.650	1.00 39.75	AAAA
ATOM	3705	N	GLY	A	493	-	-1.892	31.354	67.004	1.00 40.45	AAAA
ATOM	3706	CA			493		-1.047	30.870	68.080	1.00 40.67	AAAA
ATOM	3707	C.			493		-1.849	30.241	69.208	1.00 40.56	AAAA
							-3.086	30.282	69.203	1.00 40.87	AAAA
ATOM	3708	0			493			29.650	70.199	1.00 39.06	AAAA
ATOM	3709	N			494		-1.166			1.00 38.08	AAAA
ATOM	3710	CD			494		0.298	29.603	70.317		
ATOM	3711	CA			494		-1.794	28.999	71.350	1.00 38.40	AAAA
ATOM	3712	CB	PRO	P	494		-0.629	28.297	72.018	1.00 38.53	AAAA
ATOM	3713	CG	PRO	P	494		0.480	29.255	71.770	1.00 39.26	AAAA
MOTA	3714	С	PRO	Į	494		-2.481	29.970	72.288	1.00 37.76	AAAA
ATOM	3715	0	PRO	) <i>T</i>	494		-3.552	29.666	72.804	1.00 38.01	AAAA
ATOM	3716	N			4 4 9 5		-1.866	31.132	72.510	1.00 37.46	AAAA
ATOM	3717	CA			495		-2.447	32.141	73.397	1.00 36.79	AAAA
					A 495				73.330	1.00 33.94	AAAA
ATOM	3718	CB					-1.668				AAAA
MOTA	3719				4 495		-0.162				
MOTA	3720	CD			4 495		0.491		73.855	1.00 34.18	AAAA
MOTA	3721	OE I	LGL	J 7	A 495		1.690				AAAA
ATOM	3722	OE2	GLU	J Z	A 495		-0.171	35.755	74.320	1.00 34.25	AAAA
ATOM	3723	С	GLU	J 2	A 495		-3.915	32.381	72.999	1.00 37.59	AAAA
MOTA	3724	0	GLU	3 2	A 495		-4.344	32.045	71.886	1.00 36.83	AAAA
ATOM	3725				A 496		-4.716		73.922	1.00 38.38	AAAA
ATOM	3726				A 496		-4.427				AAAA
					A 496		-6.124				AAAA
MOTA	3727										AAAA
ATOM	3728				A 496		-6.713				AAAA
ATOM	3729				A 496		-5.578				
ATOM	3730	C			A 496		-6.277				AAAA
ATOM	3731	0	PRO	<b>)</b>	A 496		-7.324	34.610	72.072		AAAA
ATOM	3732	N	AR	3	A 497		-5.231	35.239	72.603	1.00 38.86	AAAA
ATOM	3733	CA	AR	3 :	A 497		-5.232	36.402	71.716	1.00 38.40	AAAA
ATOM	3734				A 497		-4.357	37.535	72.280	1.00 38.17	AAAA
ATOM	3735				A 497		-4.493				AAAA
					A 497		-3.438				AAAA
ATOM	3736										AAAA
ATOM	3737				A 497		-2.090		_		AAAA
ATOM	3738				A 497		-1.154				AAAA
ATOM	3739				A 497		-1.383				
ATOM	3740	ни (			A 497		0.032				AAAA
ATOM	3741	. C	AR	G	A 497		-4.650	35.919			AAAA
ATOM	3742				A 497		-5.108				AAAA
ATOM	3743				A 498		-3.632		70.456	1.00 38.64	<b>AAAA</b>
ATOM	3744				A 498		-3.001				AAAA
ATOM	3745				A 498		-1.848				AAAA
VION	5/45	, 05	713	-	400			. 55,4,0			

ATOM	3746	CG	ASP .	A 498	-0.471	34.184	70.001	1.00 19.10	AAAA
ATOM	3747	OD1	ASP .	400	-0.394	35.401	69.937	1.00 20.94	AAAA
ATOM	3748	OD2	ASP .	A 498	0.563	33.576	70.323	1.00 6.51	AAAA
ATOM	3749	С	ASP	A 498	-4.180	33.800	68.507	1.00 40.77	AAAA
ATOM	3750	0		A 498	-3.990	33.182	67.464	1.00 42.22	AAAA
ATOM	3751	N	CYS .	A 499	-5.408	33.958	69.017	1.00 44.60	AAAA
ATOM	3752	CA	CYS	A 499	-6.611	33.361	68.403	1.00 49.64	AAAA
ATOM	3753	С	CYS .	A 499	-7.350	34.199	67.354	1.00 51.40	AAAA
ATOM	3754	0	CYS .	A 499	-6.872	35.249	66.928	1.00 51.92	AAAA
ATOM	3755	CB		A 499	-7.631	32.934	69.484	1.00 51.72	AAAA
ATOM	3756	SG	CYS .	A 499	<del>-</del> 7.777	31.125	69.713	1.00 57.35	AAAA
ATOM	3757	N	VAL .	A 500	-8.525	33.705	66.953	1.00 53.22	AAAA
ATOM	3758	CA		A 500	-9.382	34.332	65.948	1.00 54.64	AAAA
ATOM	3759	CB	VAL .	A 500	-8.958	33.924	64.530	1.00 53.93	.AAAA
ATOM	3760	CG1	VAL :	A 500	-10.071	34.208	63.539	1.00 53.29	AAAA
				A 500					AAAA
ATOM	3761					34.677	64.136	1.00 54.34	
ATOM	3762	С	VAL .	A 500	-10.855	33.950	66.116	1.00 57.63	AAAA
ATOM	3763	0	VAL.	A 500	-11.195	32.775	66.296	1.00 56.46	AAAA
MOTA	3764	И		A 501	-11.720	34.959	66.036	1.00 60.93	AAAA
MOTA	3765	CA	SER	A 501	-13.168	34.788	66.159	1.00 63.49	AAAA
ATOM	3766	CB	SER	A 501	-13.548	34.462	67.609	1.00 62.82	AAAA
ATOM	3767	OG		A 501	-12.972	33.238	68.031	0.01 62.91	AAAA
ATOM	3768	С	SER .	A 501	-13.866	36.080	65.712	1.00 65.49	AAAA
ATOM	3769	0	SER	A 501	-13.260	36.907	65.021	1.00 66.21	AAAA
ATOM	3770	N	ALA.	A 502	-15.131	36.238	66.108	1.00 66.84	AAAA
ATOM	3771	CA	ALA .	A 502	-15.949	37.417	65.788	1.00 67.74	AAAA
ATOM	3772	CB	ALA .	502	-15.462	38.093	64.501	1.00 67.63	AAAA
MOTA	3773	С	ALA.	A 502	-17.430	37.053	65.650	1.00 68.67	AAAA
MOTA	3774	0	ALA .	A 502	-17.779	35.867	65.846	1.00 69.66	AAAA
ATOM	3775	OVT	ALA .		-18.229	37.963	65.345	1.00 69.23	AAAA
ATOM	3776	CB	<b>LEU</b>	В 1	1.919	84.727	27.793	1.00 53.36	BBBB
ATOM	3777	CG	LEU :	B 1	3.216	84.273	28.484	1.00 54.82	BBBB
ATOM	3778	CD1	LEU :	3 1	2.904	83.604	29.824	1.00 54.60	BBBB
MOTA	3779	CDZ	LEU		3.953	83.299	27.596	1.00 55.41	BBBB
ATOM	3780	С	LEU	В 1	0.582	85.650	25.886	1.00 52.59	BBBB
ATOM	3781	0	LEU	в 1	-0.170	84.944	25.218	1.00 53.14	BBBB
ATOM	3782	N	LEU		2.958	86.210	26.088	1.00 51.16	BBBB
ATOM	3783	CA	LEU	B 1	1.951	85.141	26.313	1.00 52.33	BBBB
MOTA	3784	N	ALA	В 2	0.267	86.878	26.290	1.00 52.82	BBBB
ATOM	3785	CA	ALA		-0.995	87.540	25.947	1.00 52.16	BBBB
ATOM	3786	СВ	ALA :	В 2	-1.677	88.062	27.208	1.00 53.00	BBBB
ATOM	3787	С	ALA	В 2	-0.614	88.703	25.026	1.00 51.80	BBBB
ATOM	3788	ō	ALA		-0.629	89.875	25.430	1.00 51.59	BBBB
ATOM	3789	N	GLU :	в 3	-0.281	88.352	23.785	1.00 50.43	BBBB
ATOM	3790	CA	GLU :	в 3	0.179	89.291	22.763	1.00 48.40	BBBB
ATOM	3791	CB	GLU		0.531	88.498	21.491	1.00 46.41	BBBB
MOTA	3792	CG	GLU		1.484	87.338	21.732	0.01 46.86	BBBB
ATOM	3793	CD	GLU :	3	1.620	86.433	20.523	0.01 46.60	BBBB
MOTA	3794	OE1	GLU :	в з	2.067	86.917	19.461	0.01 46.78	BBBB
								0.01 46.80	
ATOM	3795	OEZ	GLU :		1.280	85.236	20.636		BBBB
MOTA	3796	С	GLU :	В 3	-0.675	90.523	22.387	1.00 46.90	BBBB
ATOM	3797	0	GLU :	в 3	-0.149	91.637	22.312	1.00 47.41	BBBB
									•
MOTA	3798	N	LYS		-1.976	90.352	22.180	1.00 43.74	BBBB
ATOM	3799	CA	LYS	B 4	-2.793	91.476	21.743	1.00 40.61	BBBB
ATOM	3800	CB	LYS	B 4	-3.747	90.992	20.645	1.00 42.30	BBBB
MOTA	3801	CG	LYS		-3.088	90.094	19.586	1.00 42.15	BBBB
MOTA	3802	CD	LYS	B 4	-1.879	90.756	18.941	0.01 42.11	BBBB
ATOM	3803	CE	LYS		-1.191	89.818	17.960	0.01 42.16	BBBB
ATOM	3804	NZ	LYS	B 4	0.027	90.429	17.358	0.01 42.32	BBBB
ATOM	3805	С	LYS	B 4	-3.577	92.262	22.788	1.00 38.21	BBBB
ATOM	3806	0	LYS		-3.640	91.883	23.946	1.00 36.96	BBBB
MOTA	3807	N	LYS		-4.166	93.373	22.344	1.00 36.76	BBBB
ATOM	3808	CA	LYS	в 5	-4.983	94.268	23.176	1.00 35.51	BBBB
ATOM	3809	CB	LYS		-4.753	95.723	22.766	1.00 34.71	BBBB
MOTA	3810	CG	LYS		-3.305	96.181	22.836	0.01 34.80	BBBB
MOTA	3811	CD	LYS	в 5	-3.169	97.621	22.364	0.01 34.61	BBBB
MOTA	3812	CE	LYS		-1.725	98.091	22.415	0.01 34.54	BBBB
ATOM	3813	NZ	LYS		-1.579	99.498	21.948	0.01 34.38	BBBB
ATOM	3814	С	LYS	B 5	-6.453	93.935	22.943	1.00 35.09	BBBB
ATOM	3815	Ō	LYS		-6.956	94.153	21.846	1.00 35.64	BBBB
MOTA	3816	N	VAL		-7.152	93.435	23.956	1.00 33.89	BBBB
MOTA	3817	CA	VAL	В 6	~8.554	93.062	23.775	1.00 34.07	BBBB
ATOM	3818	CB	VAL		-8.999	92.056	24.835	1.00 34.32	BBBB
								1.00 34.72	BBBB
ATOM	3819		VAL		-8.745	90.642	24.355		
ATOM	3820	CG2	VAL	в 6	-8.240	92.310	26.112	1.00 35.92	BBBB

ATOM	3821	c ·	VAL E	3	6	-9.578	94.185	23.760	1.00 33.85	BBBB
ATOM	3822		VAL E		6	-9.287	95.308	24.168	1.00 34.65	BBBB
ATOM	3823		CYS I		7	-10.769	93.850	23.253	1.00 32.70	BBBB BBBB
ATOM ATOM	3824 3825		CYS I		7 7	-11.939 -13.181	94.737 93.865	23.155 23.177	1.00 29.92 1.00 28.64	BBBB
ATOM	3826		CYS I		7	-13.219	92.794	22.581	1.00 26.76	BBBB
ATOM	3827		CYS I		7	-11.969	95.600	21.859	1.00 29.10	BBBB
ATOM	3828	SG	CYS I	В	7	-11.325	94.847	20.325	1.00 31.71	BBBB
ATOM	3829		GLN I		8	-14.184	94.316	23.910	1.00 29.59	BBBB
ATOM	3830		GLN I		8	-15.450	93.619	23.985	1.00 28.75 1.00 25.47	BBBB BBBB
ATOM ATOM	3831 3832		GLN I		8 8	-16.321 -17.130	94.226 93.235	25.091 25.901	1.00 23.47	BBBB
ATOM	3833		GLN I		8	-16.237	92.348	26.725	1.00 24.75	BBBB
MOTA	3834		GLN		8	-15.113	92.727	27.038	1.00 26.08	BBBB
MOTA	3835	NE2	GLN I	В	8	-16.721	91.170	27.088	1.00 23.95	BBBB
MOTA	3836		GLN I		8	-15.999	94.055	22.648	1.00 30.32	BBBB
MOTA	3837 3838		GLN I		8 9	-15.888 -16.550	95.226 93.151	22.307 21.857	1.00 31.06 1.00 31.46	BBBB BBBB
ATOM ATOM	3839	N CA	GLY		9	-17.110	93.620	20.602	1.00 31.40	BBBB
ATOM	3840	C.	GLY		9	-18.491	94.165	20.927	1.00 33.15	BBBB
ATOM	3841	0	GLY		9	-18.746	94.617	22.049	1.00 32.68	BBBB
ATOM	3842	N	THR	В	10	-19.392	94.139	19.958	1.00 33.19	BBBB
MOTA	3843	CA	THR		10	-20.750	94.591	20.219	1.00 33.01	BBBB
ATOM ATOM	3844	CB OG1	THR		10 10	-21.101 -20.808	95.921 95.819	19.483 18.081	1.00 32.03 1.00 30.99	BBBB BBBB
ATOM	3845 3846	CG2	THR THR		10	-20.310	97.069	20.096	1.00 30.33	BBBB
ATOM	3847	C	THR		10	-21.676	93.475	19.795	1.00 32.99	BBBB
MOTA	3848	0	THR		10	-21.222	92.394	19.429	1.00 33.57	BBBB
ATOM	3849	N	SER		11	-22.970	93.718	19.896	1.00 33.77	BBBB
ATOM	3850	CA	SER		11	-23.962	92.734	19.508	1.00 35.30	BBBB
ATOM ATOM	3851 3852	CB OG	SER SER		11 11	-23.994 -22.865	91.574 90.728	20.502 20.314	1.00 35.85 1.00 37.56	BBBB BBBB
ATOM	3853	C	SER		11	-25.303	93.426	19.436	1.00 37.30	BBBB
ATOM	3854	ō	SER		11	-26.208	93.155	20.215	1.00 35.84	BBBB
ATOM	3855	N	ASN	В	12	-25.402	94.344	18.486	1.00 35.44	BBBB
MOTA	3856	CA	ASN		12	-26.608	95.116	18.276	1.00 36.31	BBBB
ATOM	3857	CB	ASN		12	-26.279	96.609	18.235	1.00 36.50	BBBB
ATOM ATOM	3858 3859	CG	ASN ASN		12 12	-25.450 -25.719	97.051 96.661	19.419 20.551	1.00 35.36 1.00 33.05	BBBB BBBB
ATOM	3860		ASN		12	-24.440	97.877	19.163	1.00 34.37	BBBB
ATOM	3861	C	ASN		12	-27.225	94.697	16.962	1.00 35.56	BBBB
ATOM	3862	0	ASN	В	12	-28.360	95.049	16.667	1.00 35.59	BBBB
ATOM	3863	N	LYS		13	-26.468	93.941	16.175	1.00 34.39	BBBB
ATOM ATOM	3864 3865	CA CB	LYS LYS		13 13	-26.963 -28.254	93.474 92.696	14.891 15.094	1.00 33.45 1.00 33.99	BBBB BBBB
ATOM	3866	CG	LYS		13	-28.144	91.603	16.134	1.00 34.22	BBBB
ATOM	3867	CD	LYS		13	-27.304	90.467	15.638	1.00 34.54	BBBB
ATOM	3868	CE	LYS		13	-28.078	89.168	15.762	1.00 37.14	BBBB
ATOM	3869	NZ	LYS		13	-29.429	89.250	15.121	1.00 38.18	BBBB
ATOM ATOM	3870 3871	0	LYS LYS		13 13	-27.224 -26.336	94.662 95.489	13.978 13.747	1.00 32.72 1.00 33.97	BBBB BBBB
ATOM	3872	N	LEU		14	-28.447	94.778	13.477	1.00 30.20	BBBB
ATOM	3873	CA	LEU		14	-28.742	95.883	12.584	1.00 29.73	BBBB
MOTA	3874	CB	LEU		14	-29.520	95.379	11.377	1.00 26.91	BBBB
ATOM	3875	CG	LEU		14	-28.874	94.364	10.441	1.00 25.95	BBBB
ATOM	3876 3877		LEU		14 14	-29.501 -27.384	94.565 94.542	9.091 10.319	1.00 27.81 1.00 26.44	BBBB BBBB
ATOM ATOM	3878	CDZ	LEU LEU		14	-29.463	97.102	13.156	1.00 30.62	BBBB
ATOM	3879	o	LEU		14	-30.250	97.729	12.455	1.00 33.95	BBBB
MOTA	3880	N	THR	В	15	-29.191	97.470	14.404	1.00 30.53	BEBB
MOTA	3881	CA	THR		15	-29.857	98.630	14.989	1.00 28.45	BBBB
ATOM	3882	CB	THR		15	-30.435	98.338	16.361 17.343	1.00 26.58 1.00 29.12	BBBB BBBB
ATOM ATOM	3883 3884		THR THR		15 15	-29.425 -30.933	98.550 96.914	16.436	1.00 24.36	BBBB
ATOM	3885	C	THR		15	-28.910	99.801	15.129	1.00 28.12	BBBB
ATOM	3886	ō	THR		15	-27.700	99.640	15.049	1.00 27.23	BBBB
ATOM	3887	N	GLN		16		100.976	15.358	1.00 29.08	BBBB
ATOM	3888	CA	GLN		16		102.220		1.00 29.48	BBBB
ATOM	3889 3890	CB CG	GLN GLN		16 16		103.266 103.152	14.501 13.088	1.00 32.16 1.00 33.99	BBBB BBBB
MOTA MOTA	3890	CD	GLN		16		103.152	12.375	1.00 35.94	BBBB
ATOM	3892		GLN		16		105.016		1.00 38.44	BBBB
ATOM	3893	NE2	GLN	В	16		104.979		1.00 35.49	BBBB
ATOM	3894	С	GLN		16		102.881			BBBB
ATOM	3895	0	GLN	В	16	-29.679	103.146	17.475	1.00 27.32	BBBB

ATOM	3896	N	LEU	В	17	_	27.447	103.188	17.237	1.00 2	25.33	В	BBB
ATOM	3897	CA	LEU		17	-	27.240	103.845	18.500	1.00 2	23.24	В	BBB
ATOM	3898	CB	LEU		17	_	25.843	103.523	19.039	1.00 2	20.34	В	BBB
ATOM	3899	CG	LEU		17			102.059	19.066	1.00 1	6.55	B	BBB
ATOM	3900		LEU		17			101.991	19.676	1.00 1	16.50	В	BBB
ATOM	3901		LEU		17			101.203	19.844	1.00 1	.5.84	В	BBB
ATOM	3902	C	LEU		17			105.322	18.176	1.00 2		E	BBB
ATOM	3903	ō	LEU		17			106.021	18.019	1.00 2		E	BBB
ATOM	3904	N	GLY		18			105.780	18.027	1.00 2			BBB
ATOM	3905	CA	GLY		18			107.185	17.734	1.00 2			BBBB
ATOM	3906	C	GLY		18			107.660	16.307	1.00 2			BBB
ATOM	3907	Ö	GLY		18			106.959	15.351	1.00 2			BBB
	3908	N	THR		19			108.869	16.173	1.00 2			BBB
ATOM					19			109.475	14.869	1.00 2			BBB
ATOM	3909	CA	THR						14.003	1.00 2			BBB
ATOM	3910	CB	THR		19			111.008		1.00 1			BBBB
MOTA	3911		THR		19			111.461	15.673				
MOTA	3912		THR		19			111.451	15.750	1.00 2			BBBB
MOTA	3913	C	THR		19			109.025	14.265	1.00 2			BBBB
ATOM	3914	0	THR		19			108.579	14.994	1.00 1			BBBB
ATOM	3915	N	PHE		20			109.141	12.944	1.00 2			BBBB
ATOM	3916	CA	PHE		20			108.721	12.294	1.00 2			BBBB
ATOM	3917	CB	PHE		20			109.157	10.819	1.00 2			BBBB
ATOM	3918	CG	PHE		20			108.484	9.956	1.00 2			BBBB
MOTA	3919		PHE		20			109.100	8.786	1.00 2			BBBB
ATOM	3920	CD2	PHE	В	20			107.255	10.327	1.00 2			BBBB
MOTA	3921	CE1	PHE	В	20			108.509	8.006	1.00 2			BBBB
MOTA	3922	CE2	PHE	В	20	-	27.713	106.653	9.545	1.00 2			BBBB
ATOM	3923	CZ	PHE	В	20	-	28.161	107.284	8.390	1.00 2	28.23	E	BBBB
ATOM	3924	С	PHE	В	20	-	23.900	109.263	13.030	1.00	28.25		BBBB
MOTA	3925	0	PHE	В	20	-	22.960	108.520	13.289	1.00 2	28.94	E	BBBB
MOTA	3926	N	GLU	В	21	-	23.902	110.544	13.384	1.00 2	28.89	E	BBB
ATOM	3927	CA	GLU	В	21	-	22.758	111.101	14.096	1.00	30.20	E	BBBB
ATOM	3928	CB	GLU	В	21	-	22.944	112.605	14.339	1.00	29.68	E	BBBB
MOTA	3929	CG	GLU	В	21	-	21.789	113.296	15.116	1.00	31.79	· E	BBBB
ATOM	3930	CD	GLU	В	21	-	20.500	113.514	14.297	1.00	32.77	E	BBBB
MOTA	3931	OE1	GLU	В	21	-	20.585	113.629	13.062	1.00	33.34	E	BBBB
ATOM	3932		GLU		21	-	19.399	113.596	14.886	1.00	32.14	E	BBBB
ATOM	3933	С	GLU	В	21	-	22.559	110.369	15.431	1.00	30.86	É	BBBB
ATOM	3934	o	GLU		21	-	21.423	110.048	15.801	1.00	31.08	E	BBBB
ATOM	3935	N	ASP	В	22	-	-23.650	110.104	16.151	1.00	29.10	E	BBBB
ATOM	3936	CA	ASP		22	_	-23.543	109.402	17.428	1.00	29.07	E	BBBB
ATOM	3937	CB	ASP		22	-	24.910	109.263	18.119	1.00	27.59	E	BBB
MOTA	3938	CG	ASP	В	22	-	25.384	110.547	18.793	1.00	28.16	E	BBBB
ATOM	3939	OD1	ASP		22	-	24.541	111.340	19.260	1.00	28.39	E	BBBB
ATOM	3940	OD2	ASP	В	22	-	26.615	110.751	18.877	1.00	26.72	E	BBB
ATOM	3941	C	ASP		22	-	-23.006	107.999	17.174	1.00	30.62	E	BBBB
ATOM	3942	0	ASP	В	22	-	-21.922	107.604	17.636	1.00	29.71	E	BBB
MOTA	3943	N	HIS		23	-	-23.805	107.247	16.430	1.00	31.43	E	BBBB
ATOM	3944	CA	HIS	В	23	-	-23.494	105.881	16.091	1.00	29.12	E	BBBB
ATOM	3945	CB	HIS		23	-	-24.335	105.451	14.910	1.00	29.58	E	BBBB
MOTA	3946	CG	HIS		23	-	-24.657	103.997	14.912	1.00	32.20	E	BBBB
ATOM	3947		HIS		23	-	-25.843	103.351	14.854	1.00	32.38	E	BBBB
ATOM	3948		HIS		23	-	-23.689	103.021	15.021	1.00	33.27	E	BBBB
MOTA	3949		HIS		23			101.834		1.00	34.35	F	BBBB
ATOM	3950		HIS		23			102.007		1.00	35.04	F	BBBB
ATOM	3951	C	HIS		23			105.724		1.00	27.10	Ŧ	BBBB
ATOM	3952	ō	HIS		23			104.790		1.00	28.29	F	BBBB
ATOM	3953	N	PHE		24			106.641		1.00			BBBB
ATOM	3954	CA	PHE		24			106.541		1.00			BBBB
ATOM	3955	CB	PHE		24			107.557		1.00			BBBB
ATOM	3956	CG	PHE		24			107.548		1.00			BBBB
ATOM	3957		PHE		24			106.553		1.00		1	BBBB
ATOM	3958		PHE		24			108.505		1.00			BBBB
			PHE		24			106.515		1.00			BBBB
ATOM	3959 3960		PHE		24			108.481		1.00			BBBB
ATOM	3960							100.481		1.00			BBBB
ATOM	3961	CZ	PHE		24			107.487		1.00			BBBB
MOTA	3962	C	PHE		24			3 106.757		1.00			BBBB
MOTA	3963	0	PHE		24			100.111		1.00			BBBB
MOTA	3964	N	LEU		25 25			107.973		1.00			BBBB
ATOM	3965	CA	LEU		25 25			107.973		1.00			BBBB
ATOM	3966	CB	LEU		25 25			109.109		0.01			BBBB
ATOM	3967	CG	LEU					109.662		0.01			BBBB
ATOM	3968		LEU		25 25			9 110.882					BBBB
ATOM	3969		LEU		25 25			9 110.882			26.31		BBBB
ATOM	3970	С	LEU	B	23		10.045	, 100.130	10.119	2.00			-

ATOM	3971	0	LEU B	25	-17.573 106.4	416 19.271	1.00 26.52	BBBB
MOTA	3972	N	SER B	26	-19.788 106.0		1.00 27.04	BBBB
MOTA	3973	CA	SER B	26	-19.866 104.		1.00 25.76	BBBB
ATOM	3974	CB	SER B	26	-21.257 104.3		1.00 25.62 1.00 27.77	BBBB BBBB
ATOM	3975	OG C	SER B	26 26	-21.779 103.: -18.865 103.:		1.00 27.77	BBBB
ATOM ATOM	3976 3977	С 0	SER B SER B	26	-17.892 103.		1.00 26.11	BBBB
ATOM	3978	N	LEU B	27	-19.128 103.		1.00 26.18	BBBB
ATOM	3979	CA	LEU B	27	-18.297 102.		1.00 26.87	BBBB
ATOM	3980	СВ	LEU B	27	-18.749 102.	713 15.764	1.00 24.98	BBBB
MOTA	3981	CG	LEU B	27	-18.011 102.		1.00 24.04	BBBB
ATOM	3982		LEU B	27	-17.071 101.		1.00 22.43	BBBB
ATOM	3983		LEU B	27	-19.079 101.		1.00 22.62 1.00 26.99	BBBB BBBB
ATOM	3984	C	LEU B	27	-16.805 102. -16.012 102.		1.00 25.04	BBBB
ATOM ATOM	3985 3986	O N	GLN B	27 28	-16.428 104.		1.00 29.66	BBBB
ATOM	3987	CA	GLN B	28	-15.020 104.		1.00 32.69	BBBB
ATOM	3988	CB	GLN B	28	-14.842 106.	025 16.880	1.00 33.16	BBBB
MOTA	3989	CG	GLN B	28	-13.396 106.		1.00 32.72	BBBB
MOTA	3990	CD	GLN B	28	-13.234 107.		1.00 33.54	BBBB
ATOM	3991		GLN B	28	-12.139 108.		1.00 34.63	BBBB BBBB
ATOM	3992		GLN B	28 28	-14.323 108. -14.357 104.		1.00 31.86 1.00 33.61	BBBB
ATOM ATOM	3993 3994	C 0	GLN B	28	-13.223 103.		1.00 33.71	BBBB
ATOM	3995	N	ARG B	29	-15.054 104.		1.00 34.48	BBBB
ATOM	3996	CA	ARG B	29	-14.501 104.		1.00 34.93	BBBB
ATOM	3997	СВ	ARG B	29	-15.443 105.	012 22.024	1.00 36.92	BBBB
ATOM	3998	CG	ARG B	29	-15.065 104.		1.00 41.17	BBBB
ATOM	3999	CD	ARG B	29	-15.980 105.		1.00 43.84	BBBB
ATOM	4000	NE	ARG B	29	-17.350 105.		1.00 48.80 1.00 51.15	BBBB BBBB
MOTA	4 001 4 002	CZ	ARG B	29 29	-17.805 106. -16.993 107.		1.00 52.44	BBBB
ATOM ATOM	4002		ARG B	29	-19.063 106.		1.00 52.14	BBBB
ATOM	4004	C	ARG B	29	-14.310 102.		1.00 33.29	BBBB
MOTA	4005	ō	ARG B	29	-13.224 102.		1.00 32.82	BBBB
ATOM	4006	N	MET B	30	-15.374 102	.173 20.984	1.00 30.23	BBBB
ATOM	4007	CA	MET B	30	-15.321 100.		1.00 28.48	BBBB
ATOM	4008	CB	MET B	30	-16.583 100		1.00 24.81	BBBB BBBB
ATOM	4009	CG	MET B	30 30		.570 20.609 .870 22.242	1.00 18.87 1.00 15.53	BBBB
ATOM ATOM	4010 4011	SD CE	MET B	30		.726 22.879	1.00 11.94	BBBB
ATOM	4012	C	MET B		-14.094 100		1.00 29.20	BBBB
ATOM	4013	Ō	MET B		-13.468 99	.222 21.184	1.00 29.58	BBBB
ATOM	4014	N	PHE B		-13.720 100		1.00 29.35	BBBB
ATOM	4015	CA	PHE B			.853 18.718	1.00 30.40	BBBB
ATOM	4016	CB	PHE B			.417 17.319 .413 17.320	1.00 27.67 1.00 24.90	BBBB BBBB
ATOM ATOM	4017 4018	CG	PHE B			.056 17.396	1.00 24.37	BBBB
ATOM	4019		PHE B			.830 17.219	1.00 22.85	BBBB
ATOM	4020		PHE B			.140 17.365	1.00 24.21	BBBB
ATOM	4021		PHE B		<b>-16.541</b> 97	.923 17.187		BBBB
MOTA	4022	CZ	PHE B			.584 17.256		BBBB
ATOM	4023	С	PHE B		-11.276 100			BBBB BBBB
ATOM	4024	0	PHE B		-10.268 99 -11.249 101	.923 18.376		BBBB
ATOM ATOM	4025 4026	N CA	ASN E		-9.995 102			BBBB
ATOM	4027	CB	ASN E		-10.119 104			BBBB
ATOM	4028	CG	ASN E		-8.902 104			BBBB
MOTA	4029	OD:	1 ASN E	3 32	-7.937 104			BBBB
MOTA	4030		2 ASN E		-8.942 106			BBBB
ATOM	4031	С	ASN E		-8.912 101			BBBB BBBB
MOTA	4032	0	ASN E		-9.040 101			BBBB
ATOM	4033 4034	N	ASN E		-7.874 101 -6.725 100			BBBB
ATOM ATOM	4034	CA CB			-6.253 101			BBBB
ATOM	4036				-5.714 102			BBBB
ATOM	4037		1 ASN I		-4.744 102		1.00 37.71	BBBB
ATOM	4038		2 ASN I		-6.336 103			BBBB
ATOM	4039		asn i			19.539		BBBB
MOTA	4040		ASN I			3.728 19.793		BBBB BBBB
MOTA	4041		CYS I			3.475 19.520		BBBB
ATOM	4042 4043		CYS I			7.075 19.842 5.191 18.76		BBBB
ATOM ATOM	4043		CYS			5.279 17.60	1.00 31.39	BBBB
ATOM	4045					5.389 20.42		
	- 7.0			-				

								$\chi_0$	
MOTA	4046	SG	CYS E	3 34	-10.272	96.335	19.441	1.00 30.50	BBBB
ATOM	4047	N	GLU E	3 35	-6.058	95.336	19.195	1.00 29.44	BBBB
ATOM	4048	CA	GLU E			94.367	18.334	1.00 26.90	BBBB
								1.00 23.70	BBBB
MOTA	4049	CB	GLU E			93.987	18.911		
ATOM	4050	CG	GLU E	3 35	-2.894	95.194	19.105	1.00 19.61	BBBB
ATOM	4051	CD	GLU E	3 35	-1.381	94.758	19.364	1.00 18.98	BBBB
ATOM	4052	OE1	GLU E	3 35	-1.079	93.568	19.208	1.00 21.57	BBBB
			GLU F			95.574	19.697	1.00 6.51	BBBB
ATOM	4053								
ATOM	4054	С	GLU H			93.146	18.231	1.00 26.17	BBBB
ATOM	4055	0	GLU F	3 35	-6.411	92.439	17.226	1.00 27.74	BBBB
ATOM	4056	N	VAL I	3 36	-7.296	92.947	19.216	1.00 24.39	BBBB
ATOM	4057	CA	VAL I			91.798	19.185	1.00 22.45	BBBB
								-	
ATOM	4058	CB	VAL I			90.560	19.874	1.00 21.35	BBBB
ATOM	4059	CG1	VAL I	36	-8.707	89.485	20.015	1.00 17.39	BBBB
ATOM	4060	CG2	VAL I	36	-6.455	90.052	19.089	1.00 19.79	BBBB
ATOM	4061	С	VAL I	в 36	-9.642	91.935	19.779	1.00 21.52	BBBB
		Ö	VAL I			92.309	20.925	1.00 18.07	BBBB
ATOM	4062								
ATOM	4063	N	VAL I			91.532	18.998	1.00 23.45	BBBB
ATOM	4064	CA	VAL I	в 37	-12.044	91.598	19.390	1.00 25.22	BBBB
ATOM	4065	CB	VAL I	B 37	-12.978	91.862	18.163	1.00 25.99	BBBB
ATOM	4066		VAL I			91.776	18.587	1.00 25.09	BBBB
						93.205	17.556	1.00 27.27	BBBB
ATOM	4067		VAL I						
ATOM	4068	С	VAL I			90.335	20.049	1.00 25.71	BBBB
ATOM	4069	0	VAL I	в 37	-12.698	89.286	19.405	1.00 25.52	BBBB
ATOM	4070	N	LEU I	в 38	-12.946	90.450	21.325	1.00 25.93	BBBB
	4071	CA	LEU I			89.358	22.068	1.00 26.77	BBBB
ATOM									
MOTA	4072	СВ	LEU I			89.560	23.562	1.00 25.32	BBBB
ATOM	4073	CG	LEU I	в 38	-11.874	89.463	24.028	1.00 24.63	BBBB
ATOM	4074	CD1	LEU I	B 38	-11.687	90.139	25.371	1.00 24.61	BBBB
ATOM	4075		LEU I			88.001	24.101	1.00 26.13	BBBB
								1.00 29.85	BBBB
MOTA	4076	С	LEU 1			89.581	21.717		
ATOM	4077	0	LEU I	B 38	-15.606	90.635	22.049	1.00 32.46	BBBB
MOTA	4078	N	GLY I	B 39	-15.652	88.629	21.030	1.00 29.73	BBBB
MOTA	4079	CA	GLY I	B 39	-17.038	88.838	20.632	1.00 30.64	BBBB
	4080	C	GLY !			89.281	19.176	1.00 30.42	BBBB
MOTA									
ATOM	4081	0	GLY I			88.878	18.289	1.00 31.61	BBBB
MOTA	4082	N	ASN I	B 40	-18.222	90.130	18.912	1.00 28.68	BBBB
ATOM	4083	·CA	ASN !	B 40	-18.493	90.554	17.536	1.00 25.31	BBBB
ATOM	4084	CB	ASN :			90.425	17.255	1.00 27.06	BBBB
	4085	CG	ASN				17.608	1.00 30.05	BBBB
MOTA									
MOTA	4086		ASN :			88.069	17.089	1.00 29.61	BBBB
ATOM	4087	ND2	ASN :	B 40	-21.465	89.049	18.509	1.00 32.24	BBBB
ATOM	4088	С	ASN	B 40	-18.055	91.920	17.051	1.00 22.67	BBBB
ATOM	4089	0	ASN				17.770	1.00 20.05	BBBB
							15.800	1.00 20.39	BBBB
MOTA	4090	N	LEU						
ATOM	4091	CA	LEU	B 41	17.177	93.166	15.139	1.00 19.05	BBBB
ATOM	4092	CB	LEU	B 41	-15.911	92.937	14.326	1.00 18.26	,BBBB
MOTA	4093	CG	LEU	B 41	-15.526	94.123	13.444	1.00 16.78	BBBB
ATOM	4094		LEU				14.232	1.00 16.21	BBBB
ATOM	4095	CD2	LEU				12.931	1.00 16.49	BBBB
ATOM	4096	С	LEU	B 43	-18.301	93.561	14.207	1.00 19.38	BBBB
ATOM	4097	0	LEU	B 41	-18.436	92.991	13.139	1.00 18.58	BBBB
ATOM	4098	N	GLU		-19.104	94.534	14.633	1.00 20.08	BBBB
ATOM			GLU				13.871	1.00 19.41	BBBB
	4099	CA							
ATOM	4100	CB	GLU				14.730	1.00 20.31	BBBB
ATOM	4101	CG	GLU	B 4:	-21.896	93.573	15.204	1.00 24.93	BBBB
MOTA	4102	CD	GLU	B 4:	-23.284	93.539	15.835	1.00 28.76	BBBB
ATOM	4103	OE1					15.662	1.00 29.63	BBBB
							16.505	1.00 29.99	BBBB
MOTA	4104		GLU						
ATOM	4105	С	GLU	B 4:	-20.068	96.433	13.370	1.00 17.66	BBBB
ATOM	4106	0	GLU	B 43	-20.320	97.364	14.100	1.00 18.69	BBBB
ATOM	4107	N	ILE				12.122	1.00 17.59	BBBB
ATOM	4108	CA	ILE				11.539	1.00 17.51	. BBBB
ATOM	4109	CB	ILE				10.645	1.00 13.50	BBBB
MOTA	4110	CG2	ILE	B 43	3 -18.074	99.400	10.121	1.00 8.91	BBBB
MOTA	4111		ILE		-17.032	97.502	11.433	1.00 12.43	BBBB
ATOM	4112		ILE				10.716	1.00 11.29	BBBB
								1.00 19.50	BBBB
MOTA	4113		ILE				10.686		
ATOM	4114	0	ILE	B 43	3 -20.791	97.846	9.561	1.00 20.74	BBBB
MOTA	4115	N	THR	B 4	-21.590	99.102	11.220	1.00 21.87	BBBB
ATOM		·CA	THR				10.475	1.00 24.32	· BBBB
			THR				11.093	1.00 26.37	BBBB
ATOM	4117	CB						1.00 29.38	BBBB
MOTA	4118		THR				12.491		
MOTA	4119	CG2	THR	B 4	-24.132	97.445	10.885	1.00 25.76	. BBBB
ATOM	4120	С	THR	B 4	-22.959	101.011	10.336	1.00 24.88	BBBB

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MOTA	4121	0	THR	В	44	-22.250	101.817	10.941	1.00 25.81	BBBB
ATOM	4122		TYR		45		101.353	9.512	1.00 24.59	BBBB BBBB
ATOM	4123	CA	TYR TYR		45 45	- <del>-</del>	102.716 103.175	9.190 10.180	1.00 23.28 1.00 22.33	BBBB
ATOM ATOM	4124 4125	CB CG	TYR		45		102.210	10.311	1.00 23.06	BBBB
ATOM	4126		TYR		45		101.012	10.986	1.00 23.27	BBBB
ATOM	4127		TYR		45	-27.449	100.123	11.117	1.00 26.08	BBBB
MOTA	4128	CD2	TYR	В	45	-27.797	102.499	9.765	1.00 22.19	BBBB
MOTA	4129		TYR		45		101.623	9.887	1.00 22.61	BBBB
ATOM	4130	CZ	TYR		45		100.433	10.567	1.00 25.70 1.00 24.88	BBBB BBBB
ATOM ATOM	4131 4132	OH C	TYR TYR		45 45	-29.740 -23.267	99.555 103.792	10.720 9.036	1.00 24.88	BBBB
ATOM	4133	o	TYR		45		104.991	9.019	1.00 22.74	BBBB
ATOM	4134	N	VAL		46		103.384	8.914	1.00 23.44	BBBB
ATOM	4135	CA	VAL	В	46	-20.964	104.372	8.717	1.00 24.86	BBBB
MOTA	4136	CB	VAL		46		103.725	8.714	1.00 24.27	BBBB
ATOM	4137		VAL		46		104.804	8.673 9.960	1.00 22.13 1.00 25.62	BBBB BBBB
ATOM ATOM	4138 4139	CGZ	VAL VAL		46 46		102.885	7.374	1.00 25.02	BBBB
ATOM	4140	0	VAL		46		104.393	6.327	1.00 25.97	BBBB
ATOM	4141	N	GLN		47		106.369	7.430	1.00 26.63	BBBB
ATOM	4142	CA	GLN	В	47		107.170	6.259	1.00 27.06	BBBB
ATOM	4143	CB	GLN		47		108.349	6.665	1.00 23.99	BBBB
ATOM	4144	CG	GLN	_	47		107.941	7.275 6.245	1.00 24.28 1.00 26.17	BBBB BBBB
ATOM ATOM	4145 4146	CD	GLN GLN	В	47 47		107.721	6.064	1.00 25.67	BBBB
ATOM	4147			-	47		108.794	5.563	1.00 25.63	BBBB
ATOM	4148	С			47		107.667	5.488	1.00 29.06	BBBB
ATOM	4149	0	GLN	В	47		107.683	5.997	1.00 27.81	BBBB
MOTA	4150	N	ARG		48		108.075	4.250	1.00 30.23	BBBB
ATOM	4151	CA	ARG		48		108.562	3.337 2.125	1.00 31.26 1.00 31.50	BBBB BBBB
ATOM ATOM	4152 4153	CB CG	ARG ARG		48 48		109.204	1.374	0.01 31.64	BBBB
ATOM	4154	CD	ARG		48		108.945	0.182	0.01 31.84	BBBB
ATOM '	4155	NE	ARG		48		108.061	-0.516	0.01 31.95	BBBB
MOTA	4156	CZ	ARG		48		107.563	0.022	0.01 32.03	BBBB
MOTA	4157		ARG		48		3 107.861	1.272 -0.689	0.01 32.04 0.01 32.01	BBBB BBBB
ATOM ATOM	4158 4159	NH2 C	ARG ARG		48 48		5 106.766 3 109.543	3.969	1.00 32.06	BBBB
ATOM	4160	o	ARG		48		110.283	4.887	1.00 31.63	BBBB
MOTA	4161	N	ASN		49		7 109.523	3.467	1.00 32.85	BBBB
MOTA	4162	CA	ASN		49		9 110.406	3.931	1.00 32.93	BBBB
ATOM	4163	CB	ASN		49		5 111.864	3.670 2.471	1.00 35.03	BBBB BBBB
ATOM ATOM	4164 4165	CG OD1	ASN ASN		49 49		4 112.430 9 113.625	2.182	1.00 38.34	BBBB
ATOM	4166		ASN		49		B 111.573	1.763	1.00 38.66	BBBB
MOTA	4167	C	ASN		49	-16.13	3 110.260	5.377	1.00 31.90	BBBB
ATOM	4168	0	ASN		49		1 110.920	5.808	1.00 32.59	BBBB
ATOM	4169	N	TYR		50		0 109.433	6.139	1.00 30.16 1.00 28.87	BBBB BBBB
ATOM ATOM	4170 4171	CA CB	TYR TYR		50 50		3 109.246 6 108.586	7.523 8.325	1.00 28.87	BBBB
ATOM	4171	CG	TYR		50		7 109.566	8.980	1.00 32.04	BBBB
ATOM	4173		TYR		50		5 110.305	8.225	1.00 33.37	BBBB
ATOM	4174		TYR		50		8 111.198	8.831	1.00 33.21	BBBB
ATOM	4175		TYR		50		6 109.746	10.365	1.00 32.49 1.00 33.80	BBBB BBBB
ATOM ATOM	4176 4177	CE	TYP TYP		50 50		5 110.638 4 111.357	10.980 10.203	1.00 33.80	BBBB
ATOM	4178	OH	TYR		50		2 112.216		1.00 33.69	BBBB
ATOM	4179	C	TYF		50		5 108.387		1.00 28.22	BBBB
ATOM	4180	0	TYF	<b>B</b>	50		9 107.440			BBBB
MOTA	4181	N	ASE		51		9 108.729		1.00 27.78	BBBB
ATOM	4182	CA	ASE		51		7 108.026			BBBB BBBB
ATOM MOTA	4183 4184	CB CG	ASE ASE		51 51		6 108.996 4 108.299			BBBB
ATOM	4185		l ASI		51		3 107.645			BBBB
ATOM	4186		2 ASI		51		5 108.399		1.00 32.87	BBBB
MOTA	4187		ASI		51		7 106.817			BBBB
ATOM	4188		ASI				5 106.910			BBBB
ATOM	4189		LEU				3 105.680			BBBB BBBB
MOTA MOTA	4190 4191						8 104.425 8 103.367			BBBB
ATOM	4191						2 103.512		1.00 27.07	BBBB
MOTA	4193		1 LE				9 102.504	8.503	1.00 26.21	BBBB
MOTA	4194	CD	2 LEU	JВ	52		8 103.329			BBBB
MOTA	4195	C	LE	J B	52	-11.11	.0 104.007	9.563	1.00 27.79	BBBB

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ATOM	4196	0	LEU B	52	-10.761	102.820	9.523	1.00 28.31	BBBB
ATOM	4197	N	SER B	53	-10.246		9.538	1.00 26.49	BBBB
ATOM	4198	CA	SER B	53		104.759	9.502	1.00 25.63	BBBB
ATOM	4199	CB	SER B	53		106.087	9.588	1.00 24.29	BBBB BBBB
ATOM ATOM	4200 4201	OG C	SER B	53 53		105.887 103.854	9.898 10.666	1.00 27.13	BBBB
ATOM	4201	0	SER B	53		102.998	10.519	1.00 24.27	BBBB
ATOM	4203	N	PHE B	54		104.046	11.811	1.00 24.80	BBBB
ATOM	4204	CA	PHE B	54	-8.792	103.302	13.044	1.00 24.59	BBBB
ATOM	4205	CB	PHE B	54		103.894	14.231	1.00 22.80	BBBB
ATOM	4206	CG	PHE B			103.694	14.155	1.00 21.50	BBBB
ATOM	4207		PHE B	54		102.438	14.358 13.878	1.00 20.89 1.00 20.48	BBBB BBBB
ATOM ATOM	4208 4209	CD2	PHE B			104.764	14.286	1.00 20.75	BBBB
ATOM	4210	CE2				104.589	13.805	1.00 21.20	BBBB
ATOM	4211	CZ	PHE B			103.332	14.009	1.00 21.35	BBBB
ATOM	4212	С	PHE B	54	-9.059	101.813	12.998	1.00 25.40	BBBB
ATOM	4213	0	PHE B			101.100	13.947	1.00 26.54	BBBB
ATOM	4214	N	LEU B			101.342	11.904	1.00 25.48	BBBB
ATOM	4215	CA	LEU B		-9.969 -11.084	99.929 99.771	11.763 10.734	1.00 24.96 1.00 22.81	BBBB BBBB
ATOM ATOM	4216 4217	CB CG	LEU B		-12.444	99.273	11.206	1.00 21.86	BBBB
ATOM	4218		LEU B		-12.604	99.549	12.678	1.00 23.71	BBBB
ATOM	4219		LEU B		-13.539	99.937	10.401	1.00 19.67	BBBB
ATOM	4220	С	LEU B	55	-8.780	99.068	11.364	1.00 24.83	BBBB
ATOM	4221	0	LEU B	55	-8.883	97.851	11.323	1.00 25.48	BBBB
MOTA	4222	N	LYS B		-7.641	99.693	11.115	1.00 25.06	BBBB
ATOM	4223	CA	LYS B		-6.478	98.956	10.666	1.00 26.71	BBBB BBBB
ATOM	4224 4225	CB CG	LYS B		-5.500 -6.067	99.909 100.614	9.985 8.753	1.00 28.32 1.00 28.59	BBBB
atom atom	4225	CD	LYS B		-5.067	101.626	8.231	1.00 31.13	BBBB
ATOM	4227	CE	LYS B			102.612	7.261	1.00 34.39	BBBB
ATOM	4228	NZ	LYS E	56	-4.812	103.810	7.059	1.00 35.67	BBBB
ATOM	4229	C	LYS E		-5.746	98.099	11.678	1.00 27.67	BBBB
ATOM	4230	0	LYS E		-4.871	97.330	11.299	1.00 25.94	BBBB
ATOM	4231	N	THR E		-6.084	98.210	12.958 13.946	1.00 29.61 1.00 31.11	BBBB BBBB
ATOM ATOM	4232 4233	CA CB	THR E		-5.412 -5.150	97.361 98.110	15.283	1.00 31.39	BBBB
ATOM	4233	OG1			-6.302	98.867	15.667	1.00 33.84	BBBB
ATOM	4235		THR E		-3.966	99.033	15.133	1.00 31.02	BBBB
MOTA	4236	С	THR E	57	-6.132	96.024	14.220	1.00 31.29	BBBB
ATOM	4237	0	THR E		-5.476	95.023	14.541	1.00 31.45	BBBB
ATOM	4238	N	ILE E		-7.461	96.003	14.079	1.00 29.64	BBBB
MOTA	4239	CA	ILE E		-8.240 		14.289 13.680	1.00 29.43	BBBB BBBB
ATOM ATOM	4240 4241	CB CG2	ILE E		-10.355	93.543	13.766	1.00 27.93	. BBBB
ATOM	4242	CG1			-10.406	96.033	14.355	1.00 31.18	BBBB
ATOM	4243	CD1	ILE E		-11.489	95.582	15.314	1.00 31.99	BBBB
MOTA	4244	C	ILE E		-7.569		13.608	1.00 29.47	BBBB
MOTA	4245	0	ILE E		-7.569		12.391	1.00 30.57	BBBB
ATOM	4246	N	GLN E		-7.012 -6.342		14.379 13.789	1.00 29.50 1.00 28.94	BBBB BBBB
ATOM ATOM	4247 4248	CA CB	GLN E		-4.940		14.371	1.00 28.94	BBBB
ATOM	4249	CG	GLN E		-4.112		13.981	1.00 29.91	BBBB
ATOM	4250	CD	GLN E		-2.876	92.766	14.821	1.00 32.18	BBBB
ATOM	4251	OE1	GLN E	59	-2.135		15.055	1.00 32.11	BBBB
ATOM	4252		GLN E		-2.632		15.274	1.00 32.32	BBBB
ATOM	4253	С	GLN E		-7.100		13.919	1.00 27.97	BBBB
ATOM	4254	0	GLN E		-6.989 -7.872		13.055 14.991	1.00 27.31	BBBB BBBB
ATOM ATOM	4255 4256	N CA	GLU E		-8.669		15.190	1.00 26.01	BBBB
ATOM	4257	CB	GLU E		-8.098		16.291	1.00 26.68	BBBB
ATOM	4258	CG	GLU E		-6.637		16.224	1.00 26.79	BBBB
MOTA	4259	CD	GLU E	60	-6.240	86.722	17.380	1.00 27.26	BBBB
ATOM	4260		GLU E		-5.026		17.572	1.00 25.83	BBBB
ATOM	4261		GLU E				18.091	1.00 24.77 1.00 24.37	BBBB
ATOM	4262	C	GLU E				15.623	1.00 24.37	BBBB BBBB
ATOM ATOM	4263 4264	O N	GLU E				16.169 15.386	1.00 23.00	BBBB
ATOM	4265	CA	VAL E				15.783	1.00 20.80	BBBB
ATOM	4266	CB	VAL E				14.652	1.00 19.27	BBBB
ATOM	4267		VAL I			89.157	15.040	1.00 18.41	BBBB
ATOM	4268		VAL E				14.363	1.00 19.40	BBBB
MOTA	4269	C	VAL E				16.154	1.00 21.79 1.00 21.96	BBBB BBBB
ATOM	4270	0	VAL I	3 61	-13.102	86.385	15.294	1.00 21.50	2200

MOTA	4271	N	ALA	D	62	-13.246	87.096	17.442	1.00 20.58	BBBB
ATOM	4272	CA	ALA		62	-13.729	85.832	17.946	1.00 19.45	BBBB
ATOM	4273	CB	ALA	В	62	-13.605	85.824	19.426	1.00 20.44	BBBB
ATOM	4274	C	ALA	R	62	-15.151	85.518	17.519	1.00 19.88	BBBB
MOTA	4275	0	ALA		62	-15.495	84.363	17.272	1.00 19.28	BBBB
ATOM	4276	N	GLY	В	63	-15.978	86.548	17.430	1.00 19.97	BBBB
ATOM	4277	CA	GLY	В	63	-17.348	86.345	17.004	1.00 20.79	BBBB
MOTA	4278	С	GLY		63	-17.446	86.461	15.494	1.00 21.56	BBBB
ATOM	4279	0	GLY	В	63	-16.535	86.045	14.763	1.00 21.48	BBBB
ATOM	4280	N	TYR	В	64	-18.549	87.039	15.023	1.00 20.62	BBBB
MOTA	4281	CA	TYR		64	-18.777	87.215	13.598	1.00 18.55	BEBB
ATOM	4282	CB	TYR	В	64	-20.227	86.844	13.258	1.00 17.60	BBBB
ATOM	4283	CG	TYR	В	64	-21.268	87.692	13.942	1.00 16.75	BBBB
ATOM	4284		TYR		64		89.055	13.658		
						-21.383			1.00 16.16	BBBB
ATOM	4285	CE1	TYR	В	64	-22.296	89.854	14.321	1.00 16.19	BBBB
ATOM	4286	CD2	TYR	В	64	-22.108	87.146	14.906	1.00 15.85	BBBB
ATOM	4287	CE2	TYR		64		87.937	15.582	1.00 15.55	BBBB
						-23.031				
ATOM	4288	CZ	TYR	В	64	-23.114	89.293	15.285	1.00 17.26	BBBB
ATOM	4289	OH	TYR	В	64	-23.978	90.097	15.984	1.00 19.90	BBBB
ATOM	4290	С	TYR		64	-18.462	88.652	13.184	1.00 18.53	BBBB
ATOM	4291	0	TYR	В	64	-18.371	89.526	14.033	1.00 18.65	BBBB
MOTA	4292	N	VAL	В	65	-18.290	88.885	11.882	1.00 18.60	BBBB
ATOM	4293	CA	VAL	Ð	65	-17.977	90.217	11.370	1.00 18.87	BBBB
ATOM	4294	CB	VAL		65	-16.652	90.200	10.629	1.00 16.01	BBBB
ATOM	4295	CG1	VAL	В	65	-16.099	91.591	10.531	1.00 16.99	BBBB
ATOM	4296	CG2	VAL	P	65	-15.700	89.312	11.333	1.00 16.38	BBBB
ATOM	4297	C	VAL	В	65	-19.046	90.806	10.430	1.00 19.67	BBBB
ATOM	4298	0	VAL	В	65	-18.969	90.649	9.222	1.00 20.93	BBBB
ATOM	4299	N	LEU		66	-20.009	91.528	10.996	1.00 20.30	BBBB
ATOM	4300	CA	LEU	В	66	-21.098	92.140	10.238	1.00 19.97	BBBB
ATOM	4301	CB	LEU	В	66	-22.342	92.267	11.099	1.00 17.98	BBBB
ATOM	4302	CG	LEU	B	66	-23.620	92.538	10.322	1.00 16.54	BBBB
ATOM	4303		LEU		66	-24.075	91.261	9.690	1.00 15.00	BBBB
ATOM	4304	CD2	LEU	В	66	-24.695	93.046	11.241	1.00 17.15	BBBB
ATOM	4305	С	LEU	В	66	-20.835	93.519	9.691	1.00 20.11	BBBB
MOTA	4306	0	LEU		66	-20.629	94.438	10.455	1.00 18.63	BBBB
ATOM	4307	N	ILE	В	67	-20.875	93.667	8.367	1.00 22.07	BBBB
ATOM	4308	CA	ILE	В	67	-20.715	94.976	7.733	1.00 22.04	BBBB
ATOM	4309	CB	ILE		67	-19.515	95.000	6.827	1.00 20.69	BBBB
ATOM	4310	CG2	ILE	В	67	-19.354	96.394	6.274	1.00 22.62	BBBB
ATOM	4311	CG1	ILE	R	67	-18.277	94.571	7.611	1.00 22.94	BBBB
ATOM	4312		ILE		67	-16.949	94.759	6.884	1.00 21.84	BBBB
ATOM	4313	C	ILE	В	67	-21.975	95.272	6.902	1.00 21.25	BBBB
ATOM	4314	0	ILE	R	67	-22.034	94.890	5.747	1.00 21.29	BBBB
ATOM	4315	И	ALA		68	-22.962	95.966	7.477	1.00 21.62	BBBB
ATOM	4316	CA	ALA	В	68	-24.231	96.222	6.779	1.00 23.88	BBBB
ATOM	4317	CB	ALA	В	68	-25.246	95.151	7.192	1.00 24.62	BBBB
ATOM	4318	С	ALA		68	-24.909	97.592	6.875	1.00 23.45	BBBB
ATOM	4319	0	ALA	В	68	-25.067	98.155	7.955	1.00 25.69	BBBB
ATOM	4320	N	LEU	В	69	-25.348	98.092	5.728	1.00 22.26	BBBB
ATOM	4321	CA	LEU		69	-26.038	99.372	5.627	1.00 22.36	BBBB
MOTA	4322	CB	LEU		69	-27.151	99.457	6.674	1.00 20.98	BBBB
ATOM	4323	CG	LEU	В	69	-28.260	98.434	6.413	1.00 19.85	BBBB
ATOM	4324	CD1	LEU	В	69	-29.309	98.425	7.502	1.00 18.53	BBBB
							98.775			
MOTA	4325		LEU		69	-28.877		5.104	1.00 19.83	BBBB
MOTA	4326	С	LEU	В	69	-25.176	100.623	5.689	1.00 23.47,	BBBB
ATOM	4327	0	LEU	В	69	-25.671	101.692	6.004	1.00 23.15	BBBB
ATOM	4328	N	ASN		70		100.501	5.361	1.00 25.86	BBBB
ATOM	4329	CA	ASN	В	70	-23.004	101.655	5.383	1.00 28.49	BBBB
MOTA	4330	CB	ASN	В	70	-21.613	101.292	5.911	1.00 30.30	BBBB
ATOM	4331	CG	ASN	P	70		100.406	7.116	1.00 30.50	BBBB
ATOM	4332		ASN		70		100.430	7.931	1.00 30.60	BBBB
ATOM	4333	ND2	ASN	В	70	-22.684	99.596	7.229	1.00 31.47	BBBB
MOTA	4334	С	ASN		70		102.162	3.964	1.00 29.60	BBBB
ATOM	4335	0	ASN		70		101.430	3.013	1.00 30.55	BBBB
ATOM	4336	N	THR	В	71	-22.377	103.407	3.821	1.00 30.06	BBBB
MOTA	4337	CA	THR		71		103.970	2.496	1.00 29.40	BBBB
ATOM	4338	CB	THR		71		105.051	2.161	1.00 28.17	BBBB
ATOM	4339	OG1	THR	В	71	-22.986	106.181	3.014	1.00 27.66	BBBB
ATOM	4340		THR		71		104.515	2.372	1.00 28.17	BBBB
ATOM	4341	С	THR		71		104.571	2.439	1.00 29.79	BBBB
ATOM	4342	0	THR	В	71	-20.377	105.196	1.463	1.00 30.53	BBBB
ATOM	4343	N	VAL		72		104.351	3.494	1.00 29.86	BBBB
ATOM	4344	CA	VAL		72		104.858	3.603	1.00 31.00	BBBB
		an.	VAL	- 12	72	_17 002	104.246	4.799	1.00 29.82	BBBB
ATOM	4345	CB	A WT	, ,	12	-11.032	104.540	4.100	1.00 23.02	2220

ATOM	4346	CG1	VAL !	B 72	-17.257	105.349	5.632	1.00 27.41	BBBB
MOTA	4347	CG2	VAL 1			103.373	5.597	1.00 29.35	BBBB
MOTA	4348	С	VAL			104.668	2.407	1.00 32.70	BBBB
ATOM ATOM	4349 4350	о И	VAL I			105.283	2.352 1.464	1.00 35.16 1.00 33.41	BBBB BBBB
ATOM	4351	CA	GLU I			103.606	0.302	1.00 35.17	BBBB
ATOM	4352	CB	GLU I			104.952	-0.329	1.00 36.45	BBBB
ATOM	4353	CG	GLU !			105.783	-0.737	1.00 39.32	BBBB
ATOM	4354	CD	GLU 1	B 73	-17.748	106.644	-1.955	1.00 41.38	BBBB
ATOM	4355		GLU 1			107.270	-2.439	1.00 39.74	BBBB
MOTA	4356		GLU !			106.685	-2.423	1.00 43.08	BBBB
MOTA	4357 4358	C	GLU :			102.795	0.565 -0.321	1.00 34.57 1.00 35.13	BBBB
MOTA MOTA	4358	O N	ARG			102.069	1.762	1.00 32.24	BBBB
ATOM	4360	CA	ARG			102.143	2.088	1.00 30.68	BBBB
ATOM	4361	CB	ARG		-12.887	102.875	1.603	1.00 31.93	BBBB
<b>ATOM</b>	4362	CG	ARG	B 74	-11.567	102.229	2.004	1.00 33.30	BBBB
ATOM	4363	CD	ARG			103.109	1.522	1.00 34.90	BBBB
ATOM	4364	NE	ARG			102.831	2.180	1.00 37.64	BBBB
ATOM	4365 4366	CZ	ARG ARG			101.717	2.021 1.218	1.00 39.71 1.00 39.94	BBBB BBBB
ATOM ATOM	4367		ARG			100.737	2.657	1.00 40.39	BBBB
ATOM	4368	C	ARG			101.791	3.571	1.00 29.18	BBBB
ATOM	4369	0	ARG		-13.967	102.659	4.437	1.00 29.36	BBBB
ATOM	4370	N	ILE	B 75	-13.825	100.496	3.832	1.00 26.27	BBBB
ATOM	4371	CA	ILE				5.163	1.00 23.00	BBBB
ATOM	4372	CB	ILE				5.428	1.00 22.40 1.00 23.60	BBBB BBBB
ATOM ATOM	4373 4374		ILE				6.868 5.085	1.00 23.80	BBBB
ATOM	4375		ILE				5.353	1.00 19.46	BBBB
ATOM	4376	C	ILE				5.233	1.00 22.75	BBBB
ATOM	4377	0	ILE	B 75	-12.330	97.994	5.120	1.00 23.28	BBBB
ATOM	4378	N	PRO				5.453	1.00 22.63	BBBB
ATOM	4379	CD	PRO			101.342	5.861	1.00 23.05	BBBB
ATOM ATOM	4380 4381	CA CB	PRO PRO			99.447	5.547 5.766	1.00 23.63 1.00 23.09	BBBB BBBB
ATOM	4382	CG	PRO			101.516	6.616	1.00 22.65	BBBB
ATOM	4383	C	PRO				6.573	1.00 24.83	BBBB
ATOM	4384	0	PRO				7.253	1.00 25.80	BBBB
ATOM	4385	N	LEU	B 7	-10.237	97.318	6.699	1.00 25.49	BBBB
ATOM	4386	CA	LEU				7.638	1.00 25.80	BBBB
ATOM	4387 4388	CB	LEU LEU				7.857 8.589	1.00 23.85 1.00 23.52	BBBB BBBB
ATOM ATOM	4389	CG	LEU				8.485	1.00 23.32	BBBB
ATOM	4390		LEU				10.043	1.00 22.54	BBBB
ATOM	4391	C	LEU				7.004	1.00 27.15	BBBB
ATOM	4392	0	LEU				6.711	1.00 28.72	BBBB
ATOM	4393	N	GLU				6.809	1.00 28.42	BBBB
ATOM	4394	CA	GLU				6.161	1.00 30.59	BBBB BBBB
ATOM ATOM	4395 4396	CB CG	GLU GLU				5.296 5.967	1.00 31.81	BBBB
ATOM	4397	CD	GLU				5.066	1.00 33.32	BBBB
ATOM	4398		GLU				5.106	1.00 34.43	BBBB
MOTA	4399	OE2	GLU	B 78	-6.512	98.967	4.318	1.00 31.90	BBBB
MOTA	4400	С	GLU				6.977	1.00 31.65	BBBB
ATOM	4401	0	GLU				6.485	1.00 30.37	BBBB
ATOM	4402	N	ASN				8.208 9.010	1.00 32.04 1.00 31.26	BBBB BBBB
ATOM ATOM	4403 4404	CA CB	ASN ASN				10.020	1.00 34.31	BBBB
MOTA	4405	CG	ASN				9.352	1.00 36.48	BBBB
ATOM	4406		ASN		9 -2.443		8.490	1.00 38.45	BBBB
ATOM	4407	ND2	ASN		9 -3.370	96.649	9.742	1.00 37.71	BBBB
ATOM	4408	С	ASN				9.681	1.00 30.06	BBBB
MOTA	4409	0	ASN				10.258	1.00 30.52 1.00 28.58	BBBB BBBB
ATOM ATOM	4410 4411	N CA	LEU				9.585 10.124	1.00 28.20	BBBB
ATOM	4411	CB	LEU				9.696	1.00 24.82	BBBB
ATOM	4413	CG	LEU				9.909	1.00 22.74	BBBB
ATOM	4414		LEU				11.395	1.00 24.38	BBBB
ATOM	4415		LEU				9.348	1.00 19.62	BBBB
ATOM	4416	C	LEU				9.513	1.00 31.02 1.00 31.65	BBBB BBBB
ATOM	4417	0	LEU				8.299	1.00 31.65	BBBB
MOTA MOTA	4418 4419	N CA	GLN GLN				10.334 9.831	1.00 32.00	BBBB
ATOM	4419	CB	GLN				10.507	1.00 36.99	BBBB

ATOM	4421	CG	GLN I	n 6	31	-4.139	88.340	10.307	1.00 42.64	BBBB
ATOM	4422		GLN I		31	-2.799	87.752	10.588	1.00 46.18	BBBB
ATOM	4423	OE1	GLN I	В 8	31	-2.530	87.301	11.703	1.00 48.30	BBBB
ATOM	4424	NE2	GLN I	в 8	31	-1.939	87.735	9.573	1.00 47.89	BBBB
MOTA	4425	С	GLN I	в 8	31	-7.455	86.506	10.006	1.00 34.71	BBBB
ATOM	4426		GLN I		31	-7.643	85.705	9.088	1.00 35.21	BBBB
								11.203	1.00 33.86	BBBB
ATOM	4427		ILE I		32	-8.015	86.384			
MOTA	4428	CA	ILE 1	В 8	32	-8.913	85.292	11.508	1.00 32.31	BBBB
ATOM	4429	CB	ILE	В 8	32	-8.283	84.356	12.555	1.00 34.71	BBBB
ATOM	4430	CG2	ILE !	в 8	32	-9.188	83.147	12.829	1.00 36.06	BBBB
ATOM	4431		ILE !		82	-6.944	83.862	12.030	1.00 36.99	BBBB
									1.00 40.63	
MOTA	4432		ILE		82	-7.044	83.227	10.637		BBBB
ATOM	4433	С	ILE :	В	82	-10.234	85.786	12.035	1.00 29.88	BBBB
MOTA	4434	0	ILE :	В	82	-10.323	86.842	12.636	1.00 29.23	BBBB
ATOM	4435	N	ILE	в	83	-11.265	85.007	11.775	1.00 28.33	BBBB
ATOM	4436	CA	ILE		83	-12.598	85.293	12.253	1.00 28.31	BBBB
ATOM	4437	CB	ILE		83	-13.521	85.768	11.102	1.00 26.03	BBBB
MOTA	4438	CG2	ILE	В	83	-14.973	85.686	11.512	1.00 22.70	BBBB
MOTA	4439	CG1	ILE	В	83	-13.151	87.205	10.726	1.00 24.48	BBBB
ATOM	4440	CD1	ILE	B :	83	-13.696	87.674	9.409	1.00 24.24	BBBB
ATOM	4441	C	ILE		83	-12.992	83.925	12.771	1.00 30.19	BBBB
ATOM	4442	0	ILE		83	-13.372	83.054	11.998	1.00 31.26	BBBB
MOTA	4443	N	ARG	₿	84	-12.859	83.742	14.085	1.00 31.66	BBBB
ATOM	4444	CA	ARG	В	84	-13.145	82.474	14.754	1.00 32.51	BBBB
ATOM	4445	CB	ARG		84	-12.712	82.580	16.216	1.00 32.08	BBBB
							82.889	16.387	1.00 32.01	BBBB
ATOM	4446	CG	ARG		84	-11.224				
ATOM	4447	CD	ARG		84	-10.807	83.065	17.859	1.00 31.34	BBBB
ATOM	4448	NE	ARG	В	84	-9.402	83.443	17.935	1.00 29.09	BBBB
ATOM	4449	CZ	ARG	В	84	-8.398	82.593	17.771	1.00 29.02	BBBB
ATOM	4450		ARG		84	-8.651	81.317	17.548	1.00 30.40	BBBB
								17.756	1.00 28.44	BBBB
ATOM	4451		ARG		84	-7.147	83.027			
MOTA	4452	С	ARG	В	84	-14.579	81.933	14.671	1.00 33.97	BBBB
ATOM	4453	0	ARG	В	84	-14.825	80.774	14.987	1.00 34.87	BBBB
ATOM	4454	N	GLY	В	85	-15.522	82.763	14.252	1.00 35.29	BBBB
ATOM	4455	CA	GLY		85	-16.892	82.307	14.139	1.00 36.57	BBBB
			GLY		85		81.605	15.365	1.00 37.92	BBBB
ATOM	4456	С				-17.435				
MOTA	4457	0	GLY		85	-18.178	80.633	15.248	1.00 36.65	BBBB
MOTA	4458	N	ASN	В	86	-17.072	82.093	16.548	1.00 40.91	BBBB
ATOM	4459	CA	ASN	B	86	-17.558	81.495	17.792	1.00 43.24	BBBB
ATOM	4460	CB	ASN	В	86	-16.755	81.993	18.990	1.00 43.81	BBBB
ATOM	4461	CG	ASN		86	-15.354	81.452	19.007	1.00 46.15	BBBB
MOTA	4462		ASN		86	-15.141	80.242	18.854	1.00 47.38	BBBB
MOTA	4463	ND2	ASN	В	86	-14.382	82.336	19.197	1.00 45.97	BBBB
MOTA	4464	С	ASN	₿	86	-19.010	81.857	17.990	1.00 43.88	BBBB
ATOM	4465	0	ASN	B	86	-19.636	81.448	18.959	1.00 43.31	BBBB
ATOM	4466	N		В	87	-19.526	82.647	17.057	1.00 46.19	BBBB
										BBBB
MOTA	4467	CA	MET		87	-20.907	83.095	17.085	1.00 47.55	
MOTA	4468	CB	MET		87	-21.076	84.209	18.116	1.00 49.30	BBBB
ATOM	4469	CG	MET	В	87	-22.477	84.319	18.703	1.00 53.00	BBBB
ATOM	4470	SD	MET	В	87	-22.622	85.712	19.846	1.00 58.13	BBBB
ATOM	4471	CE	MET		87	-21.027	85.556	20.764	1.00 56.33	BBBB
									1.00 46.85	BBBB
ATOM	4472	С	MET		87	-21.245	83.600	15.686		
MOTA	4473	0	MET		87	-20.521	84.410	15.114	1.00 46.81	BBBB
MOTA	4474	N	TYR	В	88	-22.345	83.102	15.139	1.00 46.07	BBBB
ATOM	4475	CA	TYR	В	88	-22.778	83.478	13.804	1.00 45.70	BBBB
ATOM	4476	СВ	TYR	В	88	-23.446	82.305	13.088	1.00 45.54	BBBB
		CG	TYR		88	-22.656	81.034	13.044	1.00 43.37	BBBB
ATOM	4477									
ATOM	4478		TYR		88	-23.253	79.850	12.627	1.00 42.66	BBBB
ATOM	4479	CE1	TYR	В	88	-22.541	78.665	12.584	1.00 41.79	BBBB
MOTA	4480	CD2	TYR	В	88	-21.318	81.004	13.417	1.00 42.77	BBBB
MOTA	4481	CE2	TYR	В	88	-20.598	79.825	13.376	1.00 42.45	BBBB
ATOM	4482	CZ	TYR		88	-21.216	78.657	12.959	1.00 40.86	BBBB
								12.919		BBBB
ATOM	4483	ОН	TYR		88	-20.507	77.483		1.00 39.81	
MOTA	4484	С	TYR		88	-23.797	84.582	13.840	1.00 45.65	BBBB
ATOM	4485	0	TYR	В	88	-24.493	84.783	14.837	1.00 45.59	BBBB
ATOM	4486	N	TYR	В	89	-23.889	85.280	12.720	1.00 45.33	BBBB
ATOM	4487	CA	TYR		89	-24.869	86.327	12.555	1.00 46.09	BBBB
									1.00 44.37	BBBB
ATOM	4488	CB	TYR		89	-24.357	87.378	11.577		
MOTA	4489	CG	TYR		89	-25.439	88.314	11.139	1.00 43.69	BBBB
ATOM	4490	CD1	TYR	В	89	-26.070	89.146	12.056	1.00 43.85	BBBB
MOTA	4491		TYR		89	-27.129	89.962		1.00 43.97	BBBB
ATOM	4492		TYR		89	-25.885	88.322		1.00 42.50	BBBB
										BBBB
ATOM	4493		TYR		89	-26.938	89.132			
ATOM	4494	CZ	TYR		89	-27.558	89.948		1.00 43.56	BBBB
ATOM	4495	OH	TYR	В	89	-28.613	90.740	9.982	1.00 42.96	BBBB

ATOM	4496	С	TYR E	3 89	-26.0	97 85.	613	11.980	1.00	47.01	BBBB
ATOM	4497		TYR E		-25.	97 84.	911 1	10.973	1.00	46.04	BBBB
ATOM	4498		GLU E					12.630		49.08	BBBB
ATOM	4499		GLU E					12.151	*	51.04	BBBB
								10.859		53.53	BBBB
ATOM	4500		GLU E					10.866		56.98	BBBB
ATOM	4501		GLU E								BBBB
ATOM	4502		GLU E					12.110		59.48	
ATOM	4503	OE1	GLU E					12.144		59.94	BBBB
ATOM	4504	OE2	GLU E	3 90	-31.	319 86		13.066		60.61	BBBB
MOTA	4505	C	GLU E	3 90	-28.	L14 83.	. 632	11.892	1.00	50.83	BBBB
ATOM	4506	0	GLU E	3 90	-28.	396 83	.088	10.822	1.00	50.69	BBBB
ATOM	4507	N	ASN I			199 83	.008	12.900	1.00	50.56	BBBB
ATOM	4508	CA	ASN I					12.872	1.00	48.83	BBBB
										49.20	BBBB
ATOM	4509	CB	ASN I							49.60	BBBB
ATOM	4510	CG	ASN I					13.293			
MOTA	4511		ASN I					13.956		51.32	BBBB
ATOM	4512	ND3	ASN I					12.217		48.50	BBBB
ATOM	4513	С	ASN I	B 91				11.487		46.90	BBBB
ATOM	4514	0	ASN I	B 91	-27.	704 80	.397	10.909	1.00	46.09	BBBB
ATOM	4515	N	SER I	B 92	-25.	600 81	.195	10.974	1.00	44.64	BBBB
ATOM	4516	CA	SER I	B 93	-25.	246 80	. 692	9.654	1.00	42.53	BBBB
ATOM	4517	CB	SER I			373 81	.028	8.669	1.00	43.20	BBBB
ATOM	4518	OG	SER I				. 527	7.371	1.00	44.97	BBBB
ATOM	4519	C	SER I				.267	9.134		40.48	BBBB
							.528	8.734		40.06	BBBB
ATOM	4520	0	SER I					9.166		37.87	BBBB
ATOM	4521	N	TYR				. 587				
ATOM	4522	ÇA	TYR :				. 235	8.654		34.79	BBBB
MOTA	4523	CB	TYR :	B 93	-23.		.277	7.620		35.28	BBBB
ATOM	4524	CG	TYR :	B 93	-24.	075 83	.788	6.652	1.00	36.16	BBBB
ATOM	4525	CD1	TYR	B 93	-25.	433 83	.943	6. <del>9</del> 31	1.00	36.78	BBBB
ATOM	4526	CE1	TYR	B 93	-26.	410 83	.499	6.045	1.00	37.22	BBBB
ATOM	4527	CD2	TYR		-23.	721 83	.173	5.460	1.00	36.95	BBBB
ATOM	4528		TYR			689 82	.727	4.563	1.00	38.63	BBBB
ATOM	4529	CZ	TYR				.893	4.863	1.00	38.91	BBBB
	4530	ОН	TYR				. 453	3.970		40.90	BBBB
ATOM							.882	9.690		31.78	BBBB
ATOM	4531	C	TYR					10.629		31.61	BBBB
ATOM	4532	0	TYR								
ATOM	4533	N	ALA				.734	9.497		28.27	BBBB
ATOM	4534	CA	ALA					10.381		26.34	BBBB
MOTA	4535	CB	ALA	B 9	i <b>-</b> 18.	146 83	.410	10.445		24.88	BBBB
ATOM	4536	C	ALA	B 9	1 -18.	951 85	.694	9.848	1.00	27.81	BBBB
ATOM	4537	0	ALA	B 9	-18.	506 86	.566	10.594	1.00	28.28	BBBB
ATOM	4538	N	LEU		-19.	102 85	.879	8.539	1.00	28.94	BBBB
ATOM	4539	CA	LEU				.147	7.858	1.00	28.50	BBBB
ATOM	4540	СВ	LEU				. 979	6.894		27.11	BBBB
		CG	LEU				.138	5.948		26.09	BBBB
ATOM	4541						.381	6.764		27.81	BBBB
ATOM	4542			B 9						25.37	BBBB
ATOM	4543		LEU				.832	5.115			
ATOM	4544	C	LEU				.473	7.071		28.00	BBBB
MOTA	4545	0	LEU				.622	6.338		29.39	BBBB
ATOM	4546	N	ALA	B 9	5 -20.	595 88	.678	7.221		26.51	BBBB
ATOM	4547	CA	ALA	В 9	6 -21.	812 89	.022	6.497		25.96	BBBB
ATOM	4548	CB	ALA	в 9	5 -23.	029 88	.545	7.263	1.00	21.58	BBBB
ATOM	4549	С	ALA		5 -21.	964 90	.494	6.172	1.00	26.73	BBBB
ATOM	4550	ō	ALA				.269	7.021	1.00	25.27	BBBB
ATOM	4551	N	VAL				.864	4.936		28.19	BBBB
			VAL				.242	4.447		29.87	BBBB
ATOM	4552	CA					. 638	3.530		30.05	BBBB
ATOM	4553	CB	VAL							30.18	BBBB
MOTA	4554		VAL				. 835	3.927			
MOTA	4555	CG2	VAL				.449	2.072		31.39	BBBB
ATOM	4556	С	$_{ m LAV}$				.310	3.698		29.37	BBBB
ATOM	4557	0	VAL	B 9	7 -23.	327 91	539	2.781		29.28	BBBB
ATOM	4558	N	LEU	B 9	8 -23.	959 93	3.228	4.100	1.00	30.18	BBBB
ATOM	4559	CA	LEU		8 -25.	297 93	3.310	3.517	1.00	31.06	BBBB
ATOM	4560	СВ	LEU				2.666	4.483	1.00	28.85	BBBB
	4561	CG	LEU				.362	5.084		26.62	BBBB
ATOM			LEU				).993	6.313		24.74	BBBB
MOTA	4562									27.42	BBBB
ATOM	4563		LEU				296	4.025			
MOTA	4564	С	LEU				1.694	3.168		32.69	BBBB
MOTA	4565	0	TEU		8 –25.		5.611	3.976		33.56	BBBB
MOTA	4566	N	SER	B 9	9 -26.	409 94	1.805	1.972		34.47	BBBB
ATOM	4567	CA	SER	B 9	9 -27.	020 96	5.029	1.426	1.00	34.50	BBBB
ATOM	4568	CB	SER		9 -28.		5.043	1.721	1.00	36.58	BBBB
ATOM	4569	OG	SER		9 -28		5.059	3.111	1.00	37.02	BBBB
ATOM	4570	C	SER		9 -26		7.353	1.854		34.63	BBBB
		_		•			· - <del>-</del>				

ATOM	4571	0	SER B	99	-26.972	98.046	2.703	1.00 33.28	BBBB
ATOM	4572	N	ASN B		-25.327	97.720	1.211	1.00 36.53	BBBB
ATOM	4573	CA	ASN B		-24.621	98.948	1.522	1.00 39.81	BBBB
ATOM	4574	CB	ASN B						
ATOM	4575	CG			-23.150	98.606	1.659	1.00 39.99	BBBB
			ASN B		-22.917	97.458	2.623	1.00 40.53	BBBB
ATOM	4576		ASN B		-23.069	97.615	3.835	1.00 41.99	BBBB
ATOM	4577		ASN B		-22.560	96.294	2.088	1.00 38.68	BBBB
ATOM	4578	С	ASN B		-24.816	100.028	0.459	1.00 42.46	BBBB
ATOM	4579	0	ASN B	100	-23.896	100.295	-0.322	1.00 42.49	BBBB
ATOM	4580	N	TYR B	101	-25.990	100.671	0.459	1.00 45.26	BBBB
ATOM	4581	CA	TYR B	101	-26.320		-0.539	1.00 48.73	BBBB
ATOM	4582	CB	TYR B		-26.584		-1.875	1.00 49.01	BBBB
ATOM	4583	CG	TYR B		-27.779		-1.804	1.00 49.01	
ATOM	4584		TYR B						BBBB
					-29.081		-1.948	1.00 49.20	BBBB
ATOM	4585		TYR B		-30.191	99.726	-1.775	1.00 49.73	BBBB
ATOM	4586		TYR B		-27.613	98.727	-1.496	1.00 49.51	BBBB
ATOM	4587		TYR B		-28.716	97.881	-1.323	1.00 50.17	BBBB
ATOM	4588	CZ	TYR B	101	-29.999	98.387	-1.459	1.00 50.12	BBBB
ATOM	4589	ОН	TYR B	101	-31.080	97.563	-1.244	1.00 50.04	BBBB
MOTA	4590	С	TYR B	101	-27.557	102.544	-0.213	1.00 50.98	BBBB
MOTA	4591	0	TYR B	101		102.489	0.891	1.00 50.92	BBBB
MOTA	4592	N	ASP B			103.309	-1.226	1.00 53.88	BBBB
ATOM	4593	CA	ASP B			104.177	-1.219	1.00 56.27	BBBB
ATOM	4594	CB	ASP B			_			
						104.740	0.173	1.00 55.80	BBBB
ATOM	4595	CG	ASP B			105.822	0.136	1.00 55.26	BBBB
ATOM	4596		ASP E			107.017	0.105	1.00 54.26	BBBB
ATOM	4597	OD2	ASP E	102	-31.773	105.482	0.120	1.00 54.34	BBBB
ATOM	4598	С	ASP E	102	-29.102	105.346	-2.202	1.00 58.00	BBBB
ATOM	4599	0	ASP E	102	-28.121	106.090	-2.223	1.00 58.97	BBBB
ATOM	4600	N	ALA E			105.480	-3.009	1.00 59.15	BBBB
ATOM	4601	CA	ALA E			106.546	-4.006	1.00 60.50	BBBB
ATOM	4602	CB	ALA E			107.904			
ATOM	4603						-3.299	1.00 59.87	BBBB
		C	ALA E			106.611	-5.175	1.00 61.53	BBBB
ATOM	4604	0	ALA E			106.478	-6.345	1.00 61.84	BBBB
MOTA	4605	М	ASN E			106.839	-4.855	1.00 62.37	BBBB
ATOM	4606	CA	ASN E		-27.020	106.947	-5.859	1.00 63.25	BBBB
MOTA	4607	CB	ASN E	3 104	-25.840	107.700	-5.247	1.00 64.03	BBBB
ATOM	4608	CG	ASN E	104	-25.704	107.443	-3.749	1.00 65.56	BBBB
ATOM	4609	OD1	ASN E	104	-26.550	107.868	-2.958	1.00 65.18	BBBB
ATOM	4610		ASN E		-24.647	106.740	-3.356	1.00 65.70	BBBB
ATOM	4611	С	ASN E			105.604	-6.411	1.00 63.62	BBBB
ATOM	4612	ō	ASN E			105.552	-7.470	1.00 63.94	BBBB
ATOM	4613	И	LYS E			104.523	-5.701		
ATOM	4614	CA	LYS E					1.00 63.06	BBBB
						103.181	-6.080	1.00 61.38	BBBB
ATOM	4615	CB	LYS E			102.831	-7.505	1.00 62.02	BBBB
MOTA	4616	CG	LYS E		-28.344	102.601	-7.657	1.00 61.80	BBBB
MOTA	4617	CD	LYS E	3 105	-28.701	102.207	-9.083	0.01 61.78	BBBB
ATOM	4618	CE	LYS E	3 105	-30.195	101.962	-9.235	0.01 61.74	BBBB
ATOM	4619	NZ	LYS E	3 105	-30.679	100.858	-8.359	0.01 61.69	BBBB
ATOM	4620	С	LYS E	3 105		103.198	-5.955	1.00 60.21	BBBB
ATOM	4621	0	LYS E			102.496		1.00 59.25	BBBB
ATOM	4622	N	THR E			104.052	-5.037	1.00 59.07	BBBB
ATOM	4623	CA	THR E			104.237	-4.697	1.00 57.55	BEBB
ATOM	4624	CB				105.672	-4.982		
			THR E					1.00 58.42	BBBB
ATOM	4625		THR E			106.036	-6.332	1.00 59.19	BBBB
ATOM	4626		THR E			105.769	-4.769	1.00 59.31	BBBB
ATOM	4627	С	THR E		-22.968	104.004	-3.191	1.00 55.49	BBBB
ATOM	4628	0	THR E	3 106	-23.661	104.667	-2.421	1.00 55.67	BBBB
MOTA	4629	N	GLY E	3 107	-22.144	103.051	-2.781	1.00 52.89	BBBB
MOTA	4630	CA	GLY E	3 107	-22.013	102.746	-1.373	1.00 49.45	BBBB
ATOM	4631	С	GLY E	3 107		102.188	-1.077	1.00 47.50	BBBB
ATOM	4632	0	GLY E			102.757	-1.481	1.00 46.17	BBBB
ATOM	4633	N	LEU E			101.063	-0.376	1.00 45.86	
ATOM									BBBB
	4634	CA	LEU E			100.438	-0.026	1.00 43.60	BBBB
MOTA	4635	CB	LEU E		-19.570		0.897	1.00 42.15	BBBB
ATOM	4636	CG	LEU E		-18.432		1.000	1.00 41.14	BBBB
ATOM	4637		LEU F		-17.127	98.909	1.366	1.00 39.74	BBBB
MOTA	4638	CD2	LEU E	3 108	-18.810	97.177	2.026	1.00 41.18	BBBB
ATOM	4639	С	LEU E	3 108	-18.590	99.985	-1.257	1.00 42.41	BBBB
ATOM	4640	0	LEU E	3 108	-18.842		-1.786	1.00 41.35	BBBB
ATOM	4641	N	LYS E			100.802	-1.714	1.00 42.65	BBBB
ATOM	4642	CA	LYS E			100.430		1.00 44.05	BBBB
ATOM	4643	CB	LYS E			101.646		1.00 44.44	BBBB
ATOM	4644								
		CG		3 109		101.315		1.00 43.89	BBBB
ATOM	4645	CD	LYS E	2 103	-14.668	102.553	-5.276	1.00 44.88	BBBB

ATOM	4646	CE	LYS	В	109	-14.155	102.338	-6.690	1.00 44.55	BBBB
ATOM	4647	NZ	LYS				101.156	-6.782	1.00 45.72	BBBB
ATOM	4648	С	LYS			-15.832	99.438	-2.485	1.00 44.01	BBBB BBBB
ATOM	4649	0	LYS			-15.910 -14.849	98.258 99.948	-2.804 -1.755	1.00 44.21	BBBB
ATOM ATOM	4650 4651	N CA	GLU			-13.705	99.174	-1.302	1.00 43.45	BBBB
ATOM	4651	CB	GLU				100.113	-1.236	1.00 44.41	BBBB
ATOM	4653	CG	GLU				101.043	-2.443	1.00 45.27	BBBB
ATOM	4654	CD	GLU				101.840	-2.499	1.00 45.98	BBBB
ATOM	4655	OE1	GLU	В	110	-10.935	102.530	-3.516	1.00 46.78	BBBB
ATOM	4656	OE2	GLU				101.777	-1.528	1.00 47.33	BBBB
ATOM	4657	C	GLU			-13.877	98.433	0.028	1.00 39.19	BBBB
ATOM	4658	0	GLU			~14.415	98.961	0.995 0.053	1.00 38.49 1.00 35.88	BBBB BBBB
ATOM ATOM	4659 4660	N CA	LEU		111	-13.419 -13.503	97.192 96.375	1.242	1.00 33.00	BBBB
ATOM	4661	CB	LEU			-14.798	95.556	1.275	1.00 33.47	BBBB
ATOM	4662	CG	LEU			-14.943	94.609	2.486	1.00 34.35	BBBB
ATOM	4663		LEU			-15.289	95.403	3.739	1.00 35.21	BBBB
ATOM	4664	CD2	LEU	В	111	-16.028	93.574	2.232	1.00 35.17	BBBB
MOTA	4665	С	LEU	В	111	-12.331	95.433	1.182	1.00 33.20	BBBB
ATOM	4666	0	LEU			-12.515	94.234	1.041	1.00 33.76	BBBB
ATOM	4667	И	PRO			-11.106	95.969	1.261	1.00 32.33 1.00 31.53	BBBB BBBB
ATOM	4668	CD	PRO			-10.816 -9.866	97.412 95.194	1.348 1.219	1.00 31.33	BBBB
ATOM ATOM	4669 4670	CA CB	PRO PRO			-8.860	96.149	1.829	1.00 32.24	BBBB
ATOM	4671	CG	PRO			-9.298	97.460	1.245	1.00 31.38	BBBB
ATOM	4672	C			112	-9.923	93.852	1.941	1.00 33.17	BBBB
ATOM	4673	0			112	-10.755	93.004	1.612	1.00 35.31	BBBB
MOTA	4674	N	MET	В	113	-9.033	93.660	2.913	1.00 32.53	BBBB
MOTA	4675	CA	MET			-8.937	92.415	3.700	1.00 30.34	BBBB
MOTA	4676	CB			113	-10.292		3.784	1.00 28.44	BBBB
MOTA	4677	CG	MET			-11.379		4.464 5.198	1.00 29.23 1.00 32.50	BBBB BBBB
ATOM ATOM	4678 4679	SD CE	MET		113	-12.740 -13.524		3.758	1.00 32.36	BBBB
ATOM	4680	C			113	-7.867	91.490	3.119	1.00 28.17	BBBB
ATOM	4681	ō			113	-8.056		2.978	1.00 26.31	BBBB
ATOM	4682	N	ARG	В	114	-6.725	92.078	2.799	1.00 27.84	BBBB
ATOM	4683	CA	ARG			-5.601		2.229	1.00 27.45	BBBB
ATOM	4684	CB			114	-4.462		1.892	1.00 27.05	BBBB
ATOM	4685	CG	ARG			-4.308		2.856 2.375	1.00 28.29	BBBB BBBB
ATOM	4686 4687	CD NE	ARG ARG			-3.207 -3.400		2.743	1.00 29.33	BBBB
ATOM ATOM	4688	CZ	ARG			-2.844		2.090	1.00 34.77	BBBB
ATOM	4689		ARG			-2.065		1.036	1.00 36.73	BBBB
ATOM	4690		ARG			-3.062		2.488	1.00 36.30	BBBB
ATOM	4691	С	ARG	В	114	-5.051	90.239	3.097	1.00 26.64	BBBB
MOTA	4692	0	ARG	В	114	-4.311		2.615	1.00 26.63	BBBB
ATOM	4693	N			115	-5.418		4.374	1.00 26.37	BBBB
ATOM	4694	CA			115	-4.933		5.336	1.00 23.71 1.00 23.92	BBBB BBBB
ATOM	4695 4696	CB CG			115 115	-4.280 -2.920		6.512 6.165	1.00 25.72	BBBB
ATOM ATOM	4696		ASN			-1.983	•	5.828	1.00 26.29	BBBB
ATOM	4698		ASN			-2.803		6.258	1.00 25.65	BBBB
ATOM	4699	С	ASN	В	115	-5.991	88.320	5.873	1.00 23.67	BBBB
MOTA	4700	0	ASN	В	115	-5.656		6.633	1.00 25.58	BBBB
ATOM	4701	И			116	-7.253		5.486	1.00 21.08	BBBB
ATOM	4702	CA			116	-8.297		6.000	1.00 20.01 1.00 18.10	BBB <b>B</b> BB <b>B</b> B
ATOM	4703	CB			116 116	-9.662 -10.780		5.564 5.883	1.00 18.75	BBBB
ATOM ATOM	4704 4705	CG	LEU			-10.780		7.383	1.00 19.96	BBBB
ATOM	4706		LEU			-12.094		5.405	1.00 20.04	BBBB
ATOM	4707	C			116	-8.138		5.581	1.00 21.08	BBBB
ATOM	4708	0	LEU	В	116	-8.903	85.665	4.767	1.00 22.30	BBBB
ATOM	4709	N			117	-7.185		6.181	1.00 21.80	BBBB
ATOM	4710	CA			117	-6.917		5.806	1.00 22.85	BBBB
ATOM	4711	CB			117	-5.436		5.963	1.00 21.93	BBBB
ATOM	4712	CG			117	-4.651		4.803	1.00 23.78 1.00 26.93	BBBB BBBB
ATOM ATOM	4713 4714	CD OE1	GLN		117	-3.222 -2.364		5.164 4.289	1.00 28.65	BBBB
ATOM	4714		GLN			-2.946		6.463	1.00 27.42	BBBB
ATOM	4716	C			117	-7.694		6.376	1.00 24.58	BBBB
ATOM	4717	Ö			117	-7.476		5.952	1.00 22.81	BBBB
ATOM	4718	N			118	-8.616		7.304	1.00 27.40	
MOTA	4719	CA			118	-9.345		7.835	1.00 28.21	BBBB
ATOM	4720	CB	GLU	В	118	-8.381	81.113	8.662	1.00 29.93	BBBB

ATOM	4721	CG .	GLU	B	118	-8.858	79.719	9.000	1.00 31.	35	BBBB
ATOM	4722		GLU			-7.698	78.792	9.280	1.00 31.		BBBB
ATOM	4723	OE1				-6.639	79.288	9.726	1.00 30	29	BBBB
ATOM	4724		GLU			-7.850	77.571	9.060	1.00 32		BBBB
ATOM	4725		GLU			-10.579	82.316	8.653	1.00 28		BBBB
ATOM	4726		GLU			-10.564	83.264	9.437	1.00 27	. 89	BBBB
ATOM	4727		ILE			-11.644	81.542	8.451	1.00 29	.00	BBBB
ATOM	4728		ILE			-12.899	81.733	9.158	1.00 30	.13	BBBB
ATOM	4729		ILE		119	-14.043	82.008	8.161	1.00 30	.73	BBBB
ATOM	4730	CG2				-15.410	81.871	8.818	1.00 29	.11	BBBB
ATOM	4731	CG1	ILE	В	119	-13.873	83.423	7.606	1.00 31	.20	BBBB
ATOM	4732	CD1	ILE	В	119	-15.025	83.901	6.720	1.00 33	.03	BBBB
ATOM	4733	С	ILE	В	119	-13.215	80.538	10.070	1.00 32	.02	BBBB
ATOM	4734	0	ILE	В	119	-14.256	80.492	10.725	1.00 35	. 25	BBBB
ATOM	4735	И	LEU	В	120	-12.304	79.576	10.122	1.00 30	.70	BBBB
MOTA	4736	CA	LEU	В	120	-12.440	78.424	11.003	1.00 29	. 36	BBBB
ATOM	4737	CB	LEU	В	120	-11.782	78.741	12.354	1.00 26	. 65	BBBB
ATOM	4738	CG	LEU	В	120	-10.266	78.973	12.412	1.00 26		BBBB
MOTA	4739	CD1	LEU	В	120	-9.941	79.871	13.566	1.00 29		BBBB
ATOM	4740	CD2	LEU	В	120	-9.514	77.686	12.564	1.00 24		BBBB
MOTA	4741	С	LEU			-13.822	77.836	11.283	1.00 30		BBBB
MOTA	4742	0	LEU			-14.043	76.661	11.032	1.00 30		BBBB
ATOM	4743	N	HIS			-14.748	78.627	11.816	1.00 32		BBBB
ATOM	4744	CA	HIS			-16.060	78.088	12.185	1.00 35		BBBB
ATOM	4745	CB	HIS			-16.207	78.091	13.713	1.00 38		BBBB
ATOM	4746	CG	HIS			-15.611	76.897	14.392	1.00 41		BBBB
ATOM	4747		HIS			-14.577	76.789	15.260	1.00 43		BBBB
ATOM	4748		HIS			-16.108	75.622	14.226	1.00 43		BBBB
MOTA	4749		HIS			-15.406	74.779	14.964	1.00 45		BBBB
ATOM	4750		HIS			-14.470	75.461	15.602	1.00 45 1.00 36		BBBB
ATOM	4751	C			121	-17.346	78.667	11.620	1.00 36		BBBB BBBB
ATOM	4752	0			121	-18.371	78.604	12.286 10.415	1.00 37		BBBB
ATOM	4753	N			122 122	-17.339 -18.590	79.214 79.736	9.907	1.00 35		BBBB
ATOM ATOM	4754 4755	CA C			122	-18.693	79.866	8.405	1.00 36		BBBB
ATOM	4756	0			122	-17.748	79.597	7.661	1.00 37		BBBB
ATOM	4757	N			123	-19.869		7.965	1.00 36		BBBB
ATOM	4758	CA			123	-20.145		6.554	1.00 36		BBBB
ATOM	4759	CB			123	-21.547	79.994	6.224	1.00 37		BBBB
ATOM	4760	C			123	-20.031	82.004	6.243	1.00 35		BBBB
ATOM	4761	ō			123	-19.727	82.810	7.120	1.00 34		BBBB
ATOM	4762	N			124	-20.270		4.995	1.00 35		BBBB
ATOM	4763	CA			124	-20.181		4.616	1.00 34	.52	BBBB
ATOM	4764	CB			124	-18.941	84.033	3.758	1.00 33	.54	BBBB
ATOM	4765		VAL	В	124	-18.766		3.551	1.00 33	.69	BBBB
MOTA	4766	CG2	VAL	В	124	-17.714	83.422	4.414	1.00 32	.10	BBBB
ATOM	4767	С	VAL	В	124	-21.399	84.184	3.813	1.00 34	.54	BBBB
MOTA	4768	0	VAL	В	124	-22.051	83.339	3.217	1.00 35		BBBB
MOTA	4769	N	ARG	В	125	-21.727	85.469	3.813	1.00 34	.77	BBBB
ATOM	4770	CA	ARG	В	125	-22.860	85.949	3.026	1.00 34		BBBB
ATOM	4771	CB	ARG	В	125	-24.193		3.767	1.00 35		BBBB
ATOM	4772	CG			125	-25.239		3.055	1.00 35		BBBB
MOTA	4773	CD			125	-26.676		3.450	1.00 35		BBBB
MOTA	4774	NE			125	-27.496		2.664	1.00 37		BBBB
ATOM	4775	CZ			125	-28.824		2.662	1.00 39		BBBB
ATOM	4776				125	-29.537		3.413	1.00 38		BBBB BBBB
ATOM	4777				125	-29.440		1.911	1.00 40		BBBB
ATOM	4778	C			125	-22.714		2.576 3.373	1.00 33		BBBB
ATOM	4779	0			125	-22.412 -22.953		1.286	1.00 33		BBBB
MOTA MOTA	4780 4781	N CA			126	-22.896		0.682	1.00 32		BBBB
ATOM	4782	CB			126	-21.76		-0.325	1.00 29		BBBB
ATOM	4783	CG			126	-20.422		0.304	1.00 28		BBBB
ATOM	4784				126	-19.91			1.00 2		BBBB
ATOM	4785				126	-19.662		0.080	1.00 28		BBBB
ATOM	4786				126	-18.670			1.00 28		BBBB
ATOM	4787				126	-18.41			1.00 28		BBBB
ATOM	4788	CZ			126	-17.91			1.00 2		BBBB
ATOM	4789	c			126	-24.21			1.00 3		BBBB
ATOM	4790	0			126	-24.89			1.00 3	5.30	BBBB
ATOM	4791	N			3 127	-24.58			1.00 3	3.96	BBBB
ATOM	4792	CA	SEF	R E	3 127	-25.83			1.00 3		BBBB
ATOM	4793	CB	SEF	E	3 127	-27.01			1.00 3		BBBB
ATOM	4794	OG			3 127	-28.25			1.00 3		BBBB
ATOM	4795	С	SEF	E	3 127	-25.93	3 92.231	<b>-1</b> .025	1.00 3	4.02	BBBB

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ATOM	4796	0	SER	В	1.27	-25.367	93.013	-0.261	1.00 34.13		BBBB
ATOM	4797	N	ASN			-26.648	92.629	-2.065	1.00 33.90		BBBB
ATOM	4798	CA	ASN			-26.842	94.030	-2.372	1.00 34.74		BBBB
ATOM	4799	CB	ASN			-28.064	94.561	-1.623	1.00 35.36		BBBB
ATOM	4800	CG	ASN			-29.340	93.875	-2.035	1.00 37.33		BBBB
			ASN			-30.417	94.219	-1.558	1.00 37.55		BBBB
ATOM	4801					-29.233	92.898	-2.924	1.00 37.39		BBBB
ATOM	4802		ASN					-2.055	1.00 34.61		BEBB
ATOM	4803	С	ASN			-25.642	94.912		1.00 35.63		BBBB
ATOM	4804	0	ASN			-25.648	95.627	-1.056			BBBB
ATOM	4805	N	ASN			-24.616	94.875	-2.898	1.00 34.17		
ATOM	4806	CA	ASN			-23.448	95.717	-2.677	1.00 34.40		BBBB
ATOM	4807	CB	ASN			-22.248	94.865	-2.259	1.00 35.67		BBBB
ATOM	4808	CG	ASN			-22.512	94.060	-0.982	1.00 37.21		BBBB
ATOM	4809		ASN			-22.867	94.615	0.064	1.00 37.09		BBBB
MOTA	4810	ND2	ASN			-22.334	92.743	-1.069	1.00 35.86		BBBB
ATOM	4811	С	ASN			-23.150	96.469	-3.964	1.00 34.36		BBBB
MOTA	4812	0	ASN			-22.025	96.504	-4.432	1.00 34.85		BBBB
ATOM	4813	N	PRO	В	130	-24.171	97.116	-4.537	1.00 34.16		BBBB
ATOM	4814	CD	PRO	В	130	-25.441	97.436	-3.860	1.00 35.11		BBBB
ATOM	4815	CA	PRO	₿	130	-24.073	97.876	-5.776	1.00 32.90		BBBB
ATOM	4816	CB	PRO	В	130	-25.065	99.003	-5.552	1.00 32.71		BBBB
MOTA	4817	CG	PRO	В	130	-26.175	98.278	-4.904	1.00 33.30		BBBB
ATOM	4818	С	PRO	В	130	-22.724	98.367	-6.228	1.00 31.92		BBBB
MOTA	4819	0	PRO	В	130	-22.416	98.288	-7.403	1.00 33:97		BBBB
ATOM	4820	N			131	-21.904	98.875	-5.333	1.00 30.35		BBBB
ATOM	4821	CA			131	-20.624	99.376	-5.789	1.00 31.05		BBBB
ATOM	4822	CB			131		100.822	-5.436	1.00 30.21		BBBB
ATOM	4823	C			131	-19.453	98.600	-5.233	1.00 32.96		BBBB
ATOM	4824	Ö			131	-18.301	99.037	-5.326	1.00 33.16		BBBB
ATOM	4825	N			132	-19.743	97.445	-4.643	1.00 34.48		BBBB
ATOM	4826	CA			132	-18.679	96.627	-4.080	1.00 34.95		BBBB
	4827	CB			132	-19.165	95.672	-2.980	1.00 32.42		BBBB
ATOM						-18.010	94.764	-2.523	1.00 29.87		BBBB
MOTA	4828	CG			132		95.623	-1.939	1.00 28.98		BBBB
ATOM	4829		LEU			-16.936			1.00 28.40		BBBB
ATOM	4830		LEU			-18.451	93.758	-1.510			BBBB
ATOM	4831	C.			132	-18.103	95.797	-5.176	1.00 36.25		
ATOM	4832	0			132	-18.769	94.919	-5.718	1.00 37.53		BBBB
MOTA	4833	N			133	-16.868	96.085	-5.526	1.00 36.96		BBBB
ATOM	4834	CA			133	-16.243	95.290	-6.536	1.00 38.86		BBBB
MOTA	4835	С			133	-14.774	95.150	-6.202	1.00 37.68		BBBB
MOTA	4836	0			133	-14.241	95.923	-5.403	1.00 37.29		BBBB
ATOM	4837	CB			133	-16.485	95.885	-7.932	1.00 40.82		BBBB
ATOM	4838	SG	CYS	В	133	-16.265	97.674	-8.150	1.00 44.61		BBBB
ATOM	4839	N			134	-14.157	94.134	-6.807	1.00 36.19		BBBB
ATOM	4840	CA			134	-12.760	93.775	-6.631	1.00 33.27		BBBB
ATOM	4841	CB	ASN	В	134	-12.007	94.861	-5.879	1.00 31.51		BBBB
MOTA	4842	CG			134	-10.603	95.025	-6.361	1.00 30.41		BBBB
MOTA	4843	OD1	ASN	В	134	-10.146	94.278	-7.212	1.00 29.79		BBBB
ATOM	4844	ND2	ASN	₿	134	-9.900	96.007	-5.816			BBBB
ATOM	4845	С	ASN	В	134	-12.810	92.504	-5.800	1.00 33.10		BBBB
ATOM	4846	0	ASN	В	134	-12.048	91.577	-6.008	1.00 33.37		BBBB
ATOM	4847	N	VAL	В	135	-13.759	92.469	-4.878	1.00 34.08		BBBB
ATOM	4848	CA	VAL	В	135	-13.946	91.343	-3.978	1.00 34.75		BBBB
ATOM	4849	CB	VAL	В	135	-14.803	91.768	-2.750	1.00 33.75		BBBB
ATOM	4850	CG1	VAL	В	135	-15.024	90.608	-1.815	1.00 30.86		BBBB
MOTA	4851	CG2	VAL	В	135	-14.119	92.902	-2.021	1.00 34.17		BBBB
ATOM	4852	С			135	-14.585		-4.624	1.00 36.09		BBBB
ATOM	4853	ō			135	-14.570		-4.034	1.00 37.44		BBBB
ATOM	4854	N			136	-15.140		-5.825	1.00 36.71		BBBB
ATOM	4855	CA			136	-15.766		-6.430	1.00 37.89		BBBB
ATOM	4856	CB			136	-16.842		-7.460	1.00 39.78		BBBB
ATOM	4857	CG			136	-16.338		-8.868	1.00 42.51		BBBB
ATOM	4858				136	-15.324		-8.891	1.00 45.89		BBBB
		CD				-15.501		-8.114	1.00 46.36		BBBB
MOTA	4859				136	-14.361		-9.691	1.00 46.51		BBBB
MOTA	4860				136			-7.086	1.00 36.94		BBBB
MOTA	4861	C			136	-14.752			1.00 36.94		BBBB
MOTA	4862	0			136	-15.128		-7.661 -6.996	1.00 34.58		BBBB
MOTA	4863	N			137	-13.473			1.00 33.86		BBBB
MOTA	4864	CA			137	-12.431		-7.583	1.00 33.86		BBBB
ATOM	4865	CB			137	-11.259		-8.058			BBBB
MOTA	4866	OG			137	-10.498		-6.978	1.00 32.28		BBBB
MOTA	4867	C			137	-11.934			1.00 34.55		BBBB
ATOM	4868	0			137	-11.411		-6.872	1.00 33.34		BBBB
MOTA	4869	N			138	-12.130			1.00 35.32 1.00 35.50		BBBB
ATOM	4870	CA	ILE	В	138,	-11.682	86.258	-4.158	1.00 33.30	•	PUDD

ATOM	4871	CB	ILE B	138	-12.109	86.947	-2.838	1.00 34.65	BBBB
ATOM	4872	CG2	ILE B	138	-11.845	86.033	-1.627	1.00 35.95	BBBB
ATOM	4873		ILE B		-11.355	88.272	-2.697		
								1.00 32.21	BBBB
ATOM	4874	CD1	ILE B	138	-9.859	88.130	-2.692	1.00 28.69	BBBB
ATOM	4875	С	ILE B	138	-12.107	84.798	-4.147	1.00 37.00	BBBB
ATOM	4876	0	ILE B	138	-13.256	84.463	-4.461	1.00 36.56	BBBB
ATOM	4877	N	GLN B		-11.146	83.948	-3.772	1.00 38.84	BBBB
ATOM	4878	CA	GLN B	139	-11.312	82.497	-3.666	1.00 40.84	BBBB
ATOM	4879	CB	GLN B	139	-10.078	81.791	-4.249	1.00 40.90	BBBB
ATOM	4880	CG	GLN B		-9.579	82.400	-5.567	1.00 41.41	BBBB
ATOM	4881	CD	GLN B		-8.432	81.635	-6.210	1.00 41.07	BBBB
MOTA	4882	OE1	GLN B	139	-8.538	80.433	-6.471	1.00 41.57	BBBB
ATOM	4883	NE2	GLN B	139	-7.335	82.336	-6.487	1.00 38.33	BBBB
ATOM	4884	С	GLN B		-11.438	82.171	-2.177	1.00 42.45	BBBB
ATOM	4885	0	GLN B		-10.437	82.122	-1.457	1.00 43.33	BBBB
ATOM	4886	И	TRP B	140	-12.664	81.962	-1.708	1.00 43.74	BBBB
ATOM	4887	CA	TRP B	140	-12.887	81.672	-0.293	1.00 44.19	BBBB
ATOM	4888	CB	TRP B		-14.308	82.069	0.114	1.00 44.20	BBBB
MOTA	4889	CG	TRP B		-14.653	83.454	-0.299	1.00 44.14	BBBB
ATOM	4890	CD2	TRP B	140	-14.638	84.623	0.524	1.00 44.35	BBBB
ATOM	4891	CE2	TRP B	140	-14.946	85.717	-0.302	1.00 44.28	BBBB
ATOM	4892		TRP B		-14.391	84.851	1.882	1.00 44.70	BBBB
ATOM	4893		TRP B		-14.965	83.872	-1.551	1.00 43.97	BBBB
ATOM	4894	NE1	TRP B	140	-15.141	85.229	-1.565	1.00 44.77	BBBB
ATOM	4895	C7.2	TRP B	140	-15.015	87.026	0.178	1.00 44.72	BBBB
ATOM	4896		TRP B		-14.460	86.152	2.360		
								1.00 45.61	BBBB
ATOM	4897	CH2	TRP B		-14.770	87.224	1.507	1.00 44.76	BBBB
ATOM	4898	C	TRP B	140	-12.653	80.208	0.032	1.00 45.26	BBBB
ATOM	4899	0	TRP B	140	-12.538	79.836	1.203	1.00 46.55	BBBB
ATOM	4900	N	ARG B		-12.584	79.377	-1.005	1.00 45.56	BBBB
ATOM	4901	CA	ARG B		-12.349	77.948	-0.830	1.00 44.51	BBBB
ATOM	4902	CB	ARG B	141	-12.304	77.243	-2.185	1.00 45.58	BBBB
ATOM	4903	CG	ARG B	141	-13.584	77.349	-3.005	1.00 47.73	BBBB
ATOM	4904	CD	ARG B		-13.835	78.759	-3.517	0.01 47.18	BBBB
ATOM	4905	NE	ARG B		-15.026	78.819	-4.361	0.01 47.51	BBBB
ATOM	4906	cz	ARG B	141	-15.472	79.923	-4.950	0.01 47.52	BBBB
ATOM	4907	NH1	ARG B	141	-14.827	81.071	-4.791	0.01 47.70	BBBB
ATOM	4908		ARG B		-16.563	79.880	-5.702	0.01 47.69	
									BBBB
ATOM	4909	С	ARG B	141	-11.025	77.744	-0.116	1.00 42.95	BBBB
ATOM	4910	0	ARG B	141	-10.695	76.629	0.266	1.00 43.95	BBBB
ATOM	4911	N	ASP B	142	-10.284	78.838	0.053	1.00 41.08	BBBB
ATOM	4912	CA	ASP B		-8.985	78.854	0.708	1.00 39.12	BBBB
ATOM	4913	CB	ASP B		-7.958	79.482	-0.218	1.00 38.57	BBBB
ATOM	4914	CG	ASP B	142	-6.623	79.732	0.457	1.00 39.74	BBBB
ATOM	4915	OD1	ASP B	142	-6.517	80.621	- 1 330	1.00 39.81	BB <b>BB</b>
ATOM	4916	002	ASP B	142	-5.662	79.035	0.098	1.00 41.04	BBBB
ATOM	4917	c	ASP B		-9.053	79.657	1.994	1.00 40.42	BBBB
MOTA	4918	0	ASP B		-8.059	79.772	2.708	1.00 40.99	BBBB
ATOM	4919	N	ILE B	143	-10.222	80.223	2.283	1.00 40.85	BBBB
ATOM	4920	CA	ILE B	143	-10.417	81.016	3.496	1.00 41.02	BBBB
MOTA	4921	СВ	ILE B		-10.918	82.461	3.184	1.00 42.31	BBBB
ATOM	4922		ILE E		-11.212	83.209	4.493	1.00 41.33	BBBB
ATOM	4923	CG1	ILE B	143	-9.878	83.220	2.352	1.00 42.58	BBBB
ATOM	4924	CD1	ILE E	143	-10.247	84.664	2.084	1.00 43.21	BBBB
ATOM	4925	С	ILE E		-11.454	80.347	4.370	1.00 40.65	BBBB
ATOM	4926	Ö	ILE E					1.00 39.98	
					-11.268	80.214	5.570		BBBB
MOTA	4927	И	VAL E		-12.551	79.935	3.750	1.00 42.22	BBBB
ATOM	4928	CA	VAL E	144	-13.642	79.278	4.455	1.00 45.17	BBBB
ATOM	4929	CB	VAL E	144	-14.903	79.173	3.567	1.00 44.81	BBBB
ATOM	4930		VAL E		-16.079	78.670	4.376	1.00 44.30	BBBB
MOTA	4931		VAL E		-15.219	80.519	2.966	1.00 44.73	BBBB
MOTA	4932	С	VAL E	3 144	-13.228	77.873	4.870	1.00 47.26	BBBB
ATOM	4933	0	VAL E	3 144	-12.138	77.406	4.540	1.00 48.17	BBBB
ATOM	4934	N	SER E		-14.095	77.199	5.606	1.00 48.93	BBBB
ATOM	4935	CA	SER E		-13.782	75.856	6.029	1.00 51.89	BBBB
ATOM	4936	CB	SER E	3 145	-13.849	75.747	7.550	1.00 52.59	BBBB
ATOM	4937	OG	SER E	3 145	-12.854	76.567	8.152	1.00 52.75	BBBB
ATOM	4938	C	SER E		-14.758	74.909	5.368	1.00 53.79	BBBB
MOTA	4939	0	SER E		-15.972	75.035	5.522	1.00 54.40	BBBB
ATOM	4940	N	SER E	3 146	-14.196	73.972	4.613	1.00 55.17	BBBB
ATOM	4941	CA	SER E	3 146	-14.951	72.972	3.877	1.00 56.16	BBBB
ATOM	4942	CB	SER E		-13.993	71.892	3.378	1.00 57.15	BBBB
ATOM	4943	OG	SER E		-12.963	72.471	2.588	1.00 58.43	BBBB
ATOM	4944	С	SER E		-16.090	72.351	4.674	1.00 56.60	BBBB
ATOM	4945	0	SER E	3 146	-17.074	71.898	4.102	1.00 56.19	BBBB

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ATOM	4946	N	ASP	В	147	-15.961	72.326	5.992	1.00 57.72	BBBB
ATOM	4947		ASP			-17.012	71.777	6.829	1.00 59.28	BBBB
ATOM	4948		ASP			-16.678	72.028	8.304	1.00 62.44	BBBB
ATOM	4949		ASP			-17.789	71.585	9.255	1.00 65.38	BBBB
ATOM	4950	OD1				-17.539	71.528	10.483	1.00 66.01	BBBB
ATOM	4951	OD2				-18.914	71.302	8.784	1.00 67.63	BBBB
ATOM	4952	C	ASP			-18.312	72.473	6.441	1.00 59.67	BBBB
ATOM	4953	0	ASP			-19.395	71.896	6.528	1.00 59.68	BBBB
ATOM	4954	N			148	-18.190	73.720	5.996	1.00 60.72	BBBB
ATOM	4955	CA			148	-19.346	74.520	5.582	1.00 61.18	BBBB
ATOM	4956	CB			148	-19.207	75.946	6.123	1.00 60.23	BBBB
ATOM	4957	CG			148	-19.477	76.057	7.590	1.00 59.20	BBBB
ATOM	4958	CD1				-18.668	75.406	8.510	1.00 59.14	BBBB
ATOM	4959	CD2				-20.571	76.772	8.053	1.00 58.88	BBBB
ATOM	4960	CE1				-18.947	75.460	9.871	1.00 58.45	BBBB
ATOM	4961	CE2				-20.855	76.830	9.406	1.00 58.65	BBBB
ATOM	4962	CZ			148	-20.041	76.171	10.317	1.00 58.35	BBBB
ATOM	4963	C			148	-19.545	74.549	4.058	1.00 61.55	BBBB
		0			148	-20.207	73.670	3.503	1.00 62.14	BBBB
MOTA	4964				149	-18.968	75.556	3.398	1.00 60.40	BBBB
ATOM	4965	N			149	-19.061	75.731	1.948	1.00 58.92	BBBB
ATOM	4966	CA	_		149	-18.109	74.780	1.229	1.00 57.27	BBBB
ATOM	4967	CB				-16.627	75.097	1.396	1.00 57.14	BBBB
ATOM	4968	CG			149	-15.805	74.166	0.526	1.00 57.13	BBBB
ATOM	4969		LEU				76.536	1.009	1.00 56.89	BBBB
ATOM	4970		LEU			-16.369		1.383	1.00 58.92	BBBB
ATOM	4971	C	-		149	-20.459	75.560	0.778	1.00 59.99	BBBB
MOTA	4972	0	_		149	-20.996	76.481	1.567	1.00 58.35	BBBB
MOTA	4973	N			150	-21.042	74.381		1.00 57.76	BBBB
ATOM.	4974	CA			150	-22.385	74.101	1.078		BBBB
MOTA	4975	CB			150	-22.783	72.660	1.394	1.00 57.70 1.00 56.56	BBBB
ATOM	4976	OG			150	-22.975	72.474	2.786		BBBB
MOTA	4977	С			150	-23.367	75.043	1.752	1.00 58.01	BBBB
ATOM	4978	0			150	-24.576	74.901	1.599	1.00 57.85	
ATOM	4979	N			151	-22.837	75.991	2.517	1.00 58.23	BBBB
ATOM	4980	CA			151	-23.660	76.961	3.215	1.00 58.34	BBBB
ATOM	4981	CB			151	-23.518	76.786	4.727	1.00 61.08	BBBB
MOTA	4982	CG			151	-24.532	75.819	5.286	1.00 64.76	BBBB
MOTA	4983				151	-25.734	75.994	5.078	1.00 66.18	BBBB
ATOM	4984				151	-24.067	74.798	5.995	1.00 68.28	BBBB
MOTA	4985	С			151	-23.302	78.379	2.809	1.00 57.06	BBBB
ATOM	4986	0			151	-23.983	79.336	3.185	1.00 56.28	BBBB
MOTA	4987	N			152	-22.226	78.512	2.042	1.00 55.26	BBBB
MOTA	4988	CA			152	-21.810	79.817	1.564	1.00 54.04	BBBB BBBB
ATOM	4989	CB			152	-20.657	79.681	0.569	1.00 52.39 1.00 50.21	- BBBB
ATOM	4990	CG			152	-19.334	79.323	1.194		BBBB
ATOM	4991	SD			152	-18.694	80.687	2.142 0.951	1.00 49.00	BBBB
MOTA	4992	CE			152	-17.657	81.443	0.868	1.00 49.22	BBBB
ATOM	4993	С			152	-23.019	80.437		1.00 53.73	BBBB
ATOM	4994	0			152	-24.029	79.764	0.643	1.00 54.23	BBBB
ATOM	4995	N			153	-22.915	81.719	0.529		BBBB
MOTA	4996	CA			153	-24.001	82.423	-0.133 0.883	1.00 54.16 1.00 53.09	BBBB
MOTA	4997	CB			153	-25.091	82.765		1.00 52.39	BBBB
ATOM	4998	OG			153	-26.141	83.492	0.271		BBBB
MOTA	4999	С			153	-23.519		-0.820	1.00 54.91 1.00 54.54	BBBB
ATOM	5000	0			153	-24.154	84.741	-0.690	1.00 55.97	BBBB
ATOM	5001	N			154	-22.403	83.600	-1.544	1.00 56.94	BBBB
ATOM	5002	CA			154	-21.827	84.738	-2.261	1.00 59.10	BBBB
ATOM	5003	CB			154	-20.907		-3.382	1.00 59.10	BBBB
MOTA	5004	CG			154	-19.425	84.240	-3.033		BBBB
ATOM	5005	SD			154	-18.353	84.258	-4.531	1.00 65.88	
MOTA	5006	CE			154	-17.970	82.464	-4.725	1.00 64.74	BBBB BBBB
ATOM	5007	С			154	-22.888	85.674	-2.854	1.00 56.45	
MOTA	5008	0			154	-23.581	86.374	-2.113	1.00 57.21	BBBB
MOTA	5009	N			155	-22.989	85.710	-4.183	1.00 54.71	BBBB
ATOM	5010	CA			155	-23.979	86.545	-4.865	1.00 53.29	BBBB
ATOM	5011	CB			155	-25.262	86.610	-4.033	1.00 52.44	BBBB
ATOM	5012	CG			155	-26.404	87.255	-4.768	1.00 53.18	BBBB
ATOM	5013				155	-26.172	88.232	-5.508	1.00 52.43	BBBB
ATOM	5014				155	-27.547	86.784	-4.592	1.00 54.88	BBBB
ATOM	5015	С			155	-23.520	87.970	-5.165	1.00 52.38	BBBB
ATOM	5016	0			155	-24.101	88.921	-4.673	1.00 52.08	. BBBB
ATOM	5017	N-			156	-22.485	88.132	-5.972	1.00 51.63	BBBB
MOTA	5018	CA			156	-22.040			1.00 51.86	BBBB
ATOM	5019	CB	PHE	E	156	-20.529				BBBB
ATOM	5020	CG	PHE	E	156	-19.716	89.159	-5.315	1.00 53.41	BBBB

ATOM	5021	CD1	PHE E	156	-19.827	87.912	-4.711	1.00 54.28	BBBB
ATOM	5022		PHE E		-18.828	90.084	-4.782	1.00 53.52	BBBB
MOTA	5023		PHE E		-19.064	87.593	-3.591	1.00 54.40	BBBB
ATOM	5024	CE2	PHE E	156	~18.058	89.777	-3.664	1.00 54.32	BBBB
ATOM	5025	CZ	PHE E	156	-18.176	88.529	-3.066	1.00 54.53	BBBB
ATOM	5026	C	PHE E						
					-22.775	89.969	-7.538	1.00 52.03	BBBB
ATOM	5027	0	PHE E	156	-23.197	89.169	-8.364	1.00 53.11	BBBB
MOTA	5028	N	GLN E	1.57	-22.928	91.281	-7.669	1.00 51.92	BBBB
ATOM	5029	CA							
			GLN E		-23.615	91.876	-8.810	1.00 51.98	BBBB
ATOM	5030	CB	GLN E	157	-25.133	91.668	-8.707	1.00 54.05	BBBB
ATOM	5031	CG	GLN E	157	-25.638	90.229	-8.682	1.00 57.48	BBBB
ATOM	5032	CD	GLN E						
					-27.155	90.149	-8.533	1.00 59.39	BBBB
ATOM	5033	OE1	GLN E	157	-27.897	90.618	-9.398	1.00 59.87	BBBB
ATOM	5034	NE2	GLN E	157	-27.620	89.559	-7.429	1.00 59.30	BBBB
ATOM	5035	C	GLN E						
					-23.364	93.376	-8.816	1.00 51.05	BBBB
ATOM	5036	0	GLN E	157	-24.314	94.144	-8.856	1.00 51.40	BBBB
MOTA	5037	N	ASN E	158	-22.116	93.820	-8.788	1.00 49.87	BBBB
ATOM	5038	CA	ASN E		-21.907	95.260	-8.750		
								1.00 49.28	BBBB
MOTA	5039	CB	ASN E		-20.423	95.608	-8.548	1.00 50.13	BBBB
ATOM	5040	CG	ASN E	158	-19.599	95.433	-9.793	1.00 50.17	BBBB
ATOM	5041	ODI	ASN E	158	-19.954		-10.863	1.00 51.88	BBBB
ATOM	5042		ASN E		-18.474	94.744	-9.661	1.00 50.17	BBBB
ATOM	5043	С	ASN E	158	-22.469	96.011	-9.951	1.00 48.78	BBBB
ATOM	5044	0	ASN E	158	-22.358	95 585	-11.090	1.00 47.05	BBBB
ATOM									
	5045	N	HIS E		-23.096	97.143	-9.672	1.00 49.64	BBBB
ATOM	5046	CA	HIS E	159	-23.682	97.970	-10.713	1.00 50.02	BBBB
ATOM	5047	CB	HIS E	159	-24.521	99 090	-10.065	1.00 49.70	BBBB
MOTA	5048	CG	HIS E		-25.459	99.114	-11.012	0.01 49.90	BBBB
ATOM	5049	CD2	HIS E	159	-26.809	99.869	-11.013	0.01 49.85	BBBB
MOTA	5050	ND1	HIS E	159	-25 026	100.468	-12 121	0.01 49.85	BBBB
ATOM	5051								
			HIS E			100.960		0.01 49.91	BBBB
ATOM	5052	NE2	HIS E	159	-27.164	100.611	-12.114	0.0149.91	BBBB
ATOM	5053	С	HIS E	159	-22.553	98.550	-11.591	1.00 49.32	BBBB
ATOM	5054	0	HIS E						
					-21.674		-12.048	1.00 48.41	BBBB
ATOM	5055	И	LEU E	3 160	-22.598	99.868	-11.803	1.00 48.50	BBBB
ATOM	5056	CA	LEU F	160	-21.642	100.639	-12,606	1.00 47.39	BBBB
ATOM	5057	CB	LEU E			101.930		1.00 47.75	
									BBBB
ATOM	5058	CG	LEU E		-20.075	102.772	-12.371	1.00 47.73	BBBB
MOTA	5059	CD1	LEU E	160	-20.138	102.932	-13.885	1.00 47.52	BBBB
ATOM	5060	CD2	LEU E	160		104.136		1.00 46.40	BBBB
ATOM	5061	С	LEU E		-20.374	99.943	-13.073	1.00 46.19	BBBB
ATOM	5062	0	LEU E	160	-20.001	100.065	-14.242	1.00 44.72	BBBB
ATOM	5063	N	GLY E	161	-19.710		-12.155	1.00 45.67	BBBB
MOTA	5064	CA	GLY E		-18.481		-12.479	1.00 43.93	BBBB
ATOM	5065	С	GLY E	3 161 <sup>-</sup>	-17.313	99.501	-12.539	1.00 42.80	BBBB
ATOM	5066	0	GLY E	161	-16.625	99.607	-13.560	1.00 43.13	BBBB
ATOM	5067	N	SER E						
						100.215		1.00 40.95	BBBB
ATOM	5068	CA	SER E	3 162	-16.001	101.173	-11.390	1.00 40.55	BBBB
ATOM	5069	CB	SER E	162	-16.450	102.417	-10.626	1.00 39.83	BBBB
MOTA	5070	OG	SER E	162		102.120		1.00 39.76	
									BBBB
ATOM	5071	С	SER E	162	-14.773	100.588	-10.697	1.00 40.51	BBBB
ATOM	5072	0	SER E	162	-14.179	101.247	-9.847	1.00 41.14	BBBB
ATOM	5073	N	CYS F	3 163	-14.365	99.375	-11.052	1.00 39.76	BBBB
ATOM	5074	CA							
			CYS E		-13.226		-10.356	1.00 40.83	BBBB
MOTA	5075	С	CYS F	163	-11.934	98.525	-11.079	1.00 41.06	BBBB
MOTA	5076	0	CYS E	163	-11.898	97.818	-12.079	1.00 41.55	BBBB
MOTA	5077	CB	CYS E		-13.650		-9.626	1.00 40.94	BBBB
MOTA	5078	SG	CYS E		-14.267	97.936	<del>-</del> 7.965	1.00 44.39	BBBB
ATOM	5079	N	GLN F	3 164	-10.857	99.075	-10.530	1.00 40.29	BBBB
ATOM	5080	CA	GLN E	3 164	-9.545	98.902	-11.103	1.00 39.13	BBBB
ATOM	5081								
		CB	GLN E		-8.489		-10.131	1.00 37.61	BBBB
ATOM	5082	ÇG	GLN E	3 164	-8.602	100.884	-9.866	1.00 36.13	BBBB
ATOM	5083	CD	GLN E	3 164	-7.642	101.363	-8.805	1.00 35.58	BBBB
ATOM	5084		GLN F			101.198			
								1.00 35.24	BBBB
ATOM	5085		GLN F			101.951		1.00 34.37	BBBB
ATOM	5086	С	GLN E	3 164	-9.315	97.446	-11.448	1.00 39.92	BBBB
ATOM	5087	0	GLN I		-10.176		-11.227	1.00 40.12	BBBB
ATOM	5088	И	LYS I		-8.149		-12.008	1.00 41.33	BBBB
ATOM	5089	CA	LYS F	3 165	-7.787	95.820	-12.419	1.00 41.86	BBBB
ATOM	5090	CB	LYS H		-6.978		-13.715	1.00 42.37	BBBB
ATOM	5091	CG	LYS E		-6.599	94.565	-14.335	1.00 41.91	BBBB
ATOM	5092	CD	LYS E	3 165	-5.888	94.797	-15.654	1.00 42.30	BBBB
ATOM	5093	CE		3 165	-6.731		-16.559	1.00 43.35	BBBB
ATOM	5094	NZ		3 165	-8.155		-16.651	1.00 43.00	BBBB
ATOM	5095	С	LYS I	3 165	-6.926	95.298	-11.309	1.00 41.87	BBBB

ATOM	5096	0	LYS	B	165	-6.250	96.086	-10.654	1.00	42.44	BBBB
	5097		CYS			-6.938		-11.087	1.00		BBBB
MOTA		N									
ATOM	5098	CA	CYS	₿	166	-6.113		-10.031	1.00		BBBB
ATOM	5099	С	CYS	В	166	-4.655	93.758	-10.261	1.00	40.70	BBBB
MOTA	5100	0	CYS	R	166	-4.218	94.885	-10.039	1.00	41.03	BBBB
		CB	CYS			-6.287	91.920	-9.932	1.00		BBBB
ATOM	5101										
ATOM	5102	SG	CYS	В	166	-7.729	91.401	-8.950	1.00		BBBB
ATOM	5103	N	ASP	В	167	-3.903	92.775	-10.722	1.00	40.79	BBBB
ATOM	5104	CA	ASP			-2.480	92 958	-10.954	1.00	41.92	BBBB
									1.00		BBBB
MOTA	5105	CB	ASP		167	-1.828	93.534	-9.691			
ATOM	5106	CG	ASP	В	167	-0.335	93.732	-9.833	1.00	43.02	BBBB
ATOM	5107	OD1	ASP	В	167	0.129	94.881	-9.669	1.00	42.93	BBBB
ATOM	5108	OD2				0.376		-10.094	1 00	45.20	BBBB
										42.60	BBBB
MOTA	5109	С	ASP			-1.908		-11.286			
ATOM	5110	0	ASP	В	167	-1.819	90.716	-10.428	1.00	41.73	BBBB
ATOM	5111	N	PRO	В	168	-1.509	91.379	-12.547	1.00	43.54	BBBB
ATOM	5112	CD	PRO	R	168	-1.304	92.467	-13.521	1.00	43.10	BBBB
						-0.942		-13.053	1.00		BBBB
ATOM	5113	CA			168						
MOTA	5114	CB	PRO	В	168	-0.201	90.581	-14.303		44.66	BBBB
ATOM	5115	CG	PRO	В	168	-1.050	91.712	-14.783	1.00	43.44	BBBB
ATOM	5116	С	PRO	В	168	-0.024	89.410	-12.054	1.00	44.69	BBBB
	5117	Ö			168	1.193		-12.229		46.01	BBBB
MOTA											
ATOM	5118	N			169	-0.628		-11.012		43.58	BBBB
ATOM	5119	CA	SER	В	169	0.092	88.147	-9.969	1.00	43.10	BBBB
ATOM	5120	CB	SER	В	169	0.954	89.096	-9.156	1.00	42.70	BBBB
		OG			169	1.194	88.533	-7.875	1 00	42.99	BBBB
ATOM	5121										
MOTA	5122	С			169	-0.934	87.520	-9.058		42.60	BBBB
MOTA	5123	0	SER	В	169	-0.808	86.382	-8.651	1.00	42.97	BBBB
ATOM	5124	N	CYS	В	170	-1.948	88.289	-8.719	1.00	43.15	BBBB
	5125	CA			170	-3.008	87.780	-7.885	1 00	45.27	BBBB
MOTA											
MOTA	5126	С			170	-3.466	86.497	-8.586		46.04	BBBB
ATOM	5127	0	CYS	В	170	-4.116	86.545	-9.622	1.00	46.04	BBBB
ATOM	5128	CB	CYS	В	170	-4.132	88.810	-7.820	1.00	46.60	BBBB
ATOM	5129	SG			170	-3.654	90.467	-7.195	1.00	50.23	BBBB
										47.93	BBBB
ATOM	5130	N			171	-3.139	85.331	-8.011			
MOTA	5131	CD	PRO	В	171	-2.945	85.199	-6.557	1.00	48.88	BBBB
ATOM	5132	CA	PRO	В	171	-3.498	84.030	-8.581	1.00	48.68	BBBB
ATOM	5133	СВ	PRO	R	171	-3.335	83.083	-7.405	1.00	48.48	BBBB
						-3.732	83.943	-6.253		48.24	BBBB
MOTA	5134	CG			171						
MOTA	5135	С	PRO	В	171	-4.900	83.991	-9.122		50.31	BBBB
ATOM	5136	0	PRO	В	171	-5.797	84.617	-8.570	1.00	52.06	BBBB
ATOM	5137	N	ASN	R	172	-5.090	83.249	-10.203	1.00	51.57	BBBB
						-6.406		-10.805		52.37	BBBB
ATOM	5138	CA			172						
ATOM	5139	CB	ASN	В	172	-7.279	82.206	-9.940		57.00	BBBB
ATOM	5140	CG	ASN	В	172	-6.732	80.782	-9.844	1.00	617.96	BBBB
ATOM	5141	OD1	ASN	В	172	-5.583	80.567	-9.440	1.00	62.97	BBBB
ATOM	5142		ASN			-7.571		-10.212	1.00	65.64	BBBB
								-10.961		50.70	BBBB
MOTA	5143	С			172	-7.075					
ATOM	5144	0	ASN	В	172	-8.292		-11.105			BBBB
ATOM	5145	N	GLY	В	173	-6.266	85.531	-10.920	1.00	49.23	BBBB
ATOM	5146	CA			173	-6.770		-11.068	1.00	48.31	BBBB
					173	-7.677		-9.951		48.05	BBBB
ATOM	5147	С									BBBB
ATOM	5148	0			173	-8.571		-10.178	1.00		
ATOM	5149	N	SER	В	174	-7.450	86.863		1.00		BBBB
ATOM	5150	CA	SER	В	174	-8.240	87.247	-7.580	1.00	45.85	BBBB
ATOM	5151	CB			174	-8.705	86.004		1.00	46.82	BBBB
						-7.647	85.071			49.86	BBBB
ATOM	5152	OG			174						
MOTA	5153	С			174	-7.407	88.120			44.63	BBBB
ATOM	5154	0	SER	В	174	-6.259	87.808	-6.358	1.00	43.51	BBBB
ATOM	5155	N	CYS	В	175	-7.994	89.224	-6.224	1.00	43.91	BBBB
ATOM	5156	CA			175	-7.301	90.153		1.00	43.71	BBBB
										44.59	BBBB
ATOM	5157	С			175	-8.312	90.932				
MOTA	5158	0			175	-9.360	91.326			45.27	BBBB
ATOM	5159	CB	CYS	В	175	-6.483	91.130	-6.183	1.00	43.88	BBBB
ATOM	5160	SG			175	-7.479	92.314		1.00	42.53	BBBB
					176	-7.997	91.161			44.24	BBBB
ATOM	5161	N									BBBB
MOTA	5162	CA			176	-8.898	91.901			43.98	
MOTA	5163	CB	TRP	В	176	-8.362	91.947	-0.984	1.00	45.38	BBBB
ATOM	5164	CG			176	-8.554	90.680	-0.283	1.00	45.93	BBBB
MOTA					176	-9.806	90.087			46.86	BBBB
	5165										BBBB
ATOM	5166				176	-9.524	88.851			47.65	
MOTA	5167	CE3	TRP	В	176	-11.143	90.478			45.90	BBBB
MOTA	5168				176	-7.588	89.817	0.122	1.00	46.45	BBBB
ATOM	5169				176	-8.159			1.00	48.47	BBBB
	5170				176	-10.532	87.996			47.31	BBBB
MOTA	J110	U42	TIVE	ט	_, 0	10.002	550	1.100	• •		

5171 CZ3 TRP B 176 MOTA -12.146 89.627 0.382 1.00 46.76 0.993 1.00 47.00 RBBB MOTA 5172 CH2 TRP B 176 -11.832 88.402 BBBB -9.071 93.307 -2.918 1.00 43.89 ATOM 5173 C TRP B 176 BBBB 5174 O ATOM TRP B 176 -10.184 93.746 -3.179 1.00 43.46 BBBB MOTA 5175 94.018 -3.052 1.00 43.57 N GLY B 177 -7.960 BBBB MOTA 5176 CA GLY B 177 -8.033 95.383 -3.527 1.00 44.42 BBBB MOTA 5177 C 95.634 -4.824 1.00 44.62 GLY B 177 -7.299 RBBB ATOM 5178 0 GLY B 177 -6.932 94.706 -5.542 1.00 44.67 BBBB -7.093 96.908 -5.129 1.00 44.93 -6.389 97.293 -6.343 1.00 45.74 ATOM 5179 N ALA B 178 BBBB 5180 CA ALA B 178 ATOM BBBB ATOM 5181 CB ALA B 178 -6.966 98.598 -6.884 1.00 44.97 BBBB ATOM 5182 C ALA B 178 -4.890 97.443 -6.070 1.00 45.24 BBBB ATOM 5183 O ALA B 178 -4.450 98.395 -5.424 1.00 45.62 RRRR 5184 N GLY B 179 -4.110 96.490 -6.559 1.00 44.66 ATOM BBBB ATOM 5185 CA GLY B 179 -2.677 96.543 -6.350 1.00 44.17 BBBB ATOM -2.083 95.172 -6.097 1.00 44.47 -2.806 94.173 -6.025 1.00 44.80 5186 С GLY B 179 BBBB ATOM 5187 O GLY B 179 BBBB ATOM 5188 N GLU B 180 -0.757 95.121 -5.996 1.00 43.76 BBBB 5189 CA GLU B 180 ATOM -0.050 93.882 -5.721 1.00 43.03 BBBB ATOM 5190 CB GLU B 180 1.454 94.090 -5.890 1.00 41.64 BBBB 1.870 94.540 -7.281 0.01 41.87 ATOM 5191 CG GLU B 180 BBBB MOTA 5192 CD GLU B 180 3.366 94.748 -7.405 0.01 41.68 BBBB ATOM 5193 OE1 GLU B 180 4.123 93.775 -7.198 0.01 41.77 BBBB 3.785 95.885 -7.711 ATOM 5194 OE2 GLU B 180 0.01 41.79 BBBB ATOM 5195 C GLU B 180 -0.371 93.575 -4.266 1.00 43.73 BBBB ATOM 5196 O GLU B 180 -0.809 92.475 -3.921 1.00 43.75 BBBB -0.165 94.596 -3.435 1.00 44.85 -0.404 94.571 -1.988 1.00 45.20 ATOM 5197 N GLU B 181 BBBB 5198 CA GLU B 181 ATOM BBBB 5199 CB GLU B 181 ATOM -0.274 95.995 -1.420 1.00 45.56 BBBB ATOM 5200 CG GLU B 181 1.156 96.519 -1.313 0.01 45.13 96.625 -2.653 0.01 45.06 BBBB ATOM 5201 CD GLU B 181 1.860 BBBB ATOM 5202 OE1 GLU B 181 2.137 95.576 -3.271 0.01 44.94 BBBB MOTA 5203 OE2 GLU B 181 2.137 97.762 -3.090 0.01 44.94 BBBB 93.988 -1.527 93.686 -0.351 1.00 44.16 1.00 42.92 ATOM 5204 C GLU B 181 -1.742BBBB ATOM 5205 O GLU B 181 -1.911 BBBB ATOM 5206 N ASN B 182 -2.690 93.833 -2.444 1.00 44.60 BBBB 93.303 -2.081 1.00 45.21 94.367 -2.306 1.00 46.01 MOTA 5207 CA ASN B 182 -3.999 BBBB 5208 CB ASN B 182 ATOM -5.065 BBBB ATOM 5209 CG ASN B 182 -4.739 95.654 -1.594 1.00 46.81 BBBB ATOM 5210 OD1 ASN B 182 -4.865 95.752 -0.375 1.00 46.45 BBBB -4.292 ATOM 5211 ND2 ASN B 182 96.647 -2.351 1.00 46.73 BBBB MOTA 5212 C ASN B 182 -4.354 92.043 -2.845 1.00 44.71 BBBB ASN B 182 ATOM 5213 O -5.525 91.693 -2.988 1.00 44.30 BBBB ATOM 5214 N CYS B 183 -3.331 91.372 -3.351 1.00 44.70 BBBB 5215 CAT CYS B 183 -3.533 90.125 -4.063 1.00 45.07 TATIOM BBBB-MOTA -4.005 89.117 -3.016 1.00 44.84 5216 C CYS B 183 BBBB ATOM 5217 0 -3.587 89.193 -1.855 1.00 45.06 CYS B 183 BBBB -2.212 89.643 -4.655 1.00 45.81 -1.828 90.227 -6.326 1.00 49.60 ATOM 5218 CB CYS B 183 BBBB ATOM 5219 SG CYS B 183 BBBB ATOM 5220 N GLN B 184 -4.869 88.181 -3.402 1.00 42.65 BBBB 87.192 -2.439 1.00 40.22 86.275 -3.015 1.00 38.23 ATOM 5221 CA GLN B 184 -5.319 BBBB ATOM 5222 CB GLN B 184 -6.396 BBBB ATOM 5223 CG GLN B 184 -6.903 85.270 -1.993 1.00 37.67 BBBB 84.519 -2.440 1.00 38.56 85.078 -3.082 1.00 38.18 83.247 -2.079 1.00 39.18 ATOM 5224 CD GLN B 184 -8.145 BBBB MOTA 5225 OE1 GLN B 184 -9.028 BBBB ATOM 5226 NE2 GLN B 184 -8.224 BBBB MOTA 5227 C GLN B 184 -4.112 86.364 -2.107 1.00 40.50 BBBB ATOM 5228 GLN B 184 86.117 -2.965 0 -3.279 1.00 41.28 BBBB ATOM -3.997 85.959 -0.854 1.00 41.38 5229 N LYS B 185 BBBB ATOM 5230 CA LYS B 185 -2.883 85.122 -0.436 1.00 41.21 0.785 1.00 41.21 0.464 BBBB -2.178 85.718 ATOM 5231 CB LYS B 185 BBBB ATOM 5232 CG LYS B 185 -0.841 86.354 0.464 1.00 43.17 BBBB -0.089 86.710 1.736 1.00 45.53 ATOM 5233 CD LYS B 185 RRRR MOTA 5234 CE LYS B 185 1.410 86.895 1.470 1.00 46.38 BBBB 2.216 87.040 2.737 1.00 46.67 -3.440 83.742 -0.110 1.00 40.52 ATOM 5235 NZ LYS B 185 BBBB 5236 C ATOM LYS B 185 BBBB ATOM 5237 O LYS B 185 -3.879 83.488 1.017 1.00 41.41 BBBB MOTA 5238 N LEU B 186 -3.435 82.868 -1.116 1.00 37.71 BBBB АТОМ 5239 CA LEU B 186 -3.937 81.508 -0.983 1.00 35.51 80.845 -2.350 1.00 34.54 BBBB ATOM 5240 CB LEU B 186 -3.978 BBBB ATOM 5241 CG LEU B 186 -4.819 81.477 -3.442 1.00 33.93 BBBB ATOM 5242 CD1 LEU B 186 -4.318 80.969 -4.765 1.00 33.45 BBBB MOTA 5243 CD2 LEU B 186 -6.290 81.151 -3.245 1.00 32.81 BBBB MOTA 5244 C LEU B 186 -3.053 80.660 -0.082 1.00 34.61 BBBB -1.844 80.616 -0.277 1.00 35.18 MOTA 5245 O LEU B 186 BBBB

ATOM	5246	N	THR	В	187	-3.663	79.990	0.894	1.00 32.99	BBBB
ATOM	5247	CA	THR		187	-2.959	79.096	1.826	1.00 31.46	BBBB
ATOM	5248	СВ	THR		187	-2.425	79.847	3.054	1.00 29.79	BBBB
ATOM	5249	OG1	THR		187	-3.456	80.680	3.584	1.00 30.68	BBBB
									1.00 29.76	BBBB
ATOM	5250	CG2	THR			-1.244	80.693	2.694		
ATOM	5251	С	THR			-3.913	77.998	2.320	1.00 30.79	BBBB
ATOM	5252	0	THR			-3.515	76.861	2.567	1.00 28.76	BBBB
MOTA	5253	N	CYS	В	191	-2.881	73.298	0.361	1.00 65.46	BBBB
ATOM	5254	CA	CYS	В	191	-1.544	73.630	-0.115	1.00 64.95	BBBB
ATOM	5255	С	CYS	В	191	-0.969	72.654	-1.132	1.00 65.47	BBBB
ATOM	5256	0	CYS	В	191	-0.568	73.049	-2.228	1.00 65.47	BBBB
ATOM	5257	СВ	CYS			-0.600	73.730	1.066	1.00 63.60	BBBB
ATOM	5258	SG	CYS			-0.638	75.365	1.838	1.00 62.92	BBBB
										BBBB
ATOM	5259	N	ALA			-0.925	71.381	-0.755	1.00 65.77	
MOTA	5260	CA	ALA			-0.397	70.334	-1.617	1.00 65.72	BBBB
ATOM	5261	CB	ALA			1.095	70.532	-1.797	1.00 65.60	BBBB
ATOM	5262	С	ALA			-0.672	68.959	-1.012	1.00 65.62	BBBB
MOTA	5263	0	ALA	В	192	-1.383	68.835	-0.010	1.00 65.70	BBBB
ATOM	5264	N	GLN	В	193	-0.122	67.923	-1.634	1.00 65.25	BBBB
MOTA	5265	CA	GLN	В	193	-0.290	66.571	-1.123	1.00 64.62	BBBB
ATOM	5266	СВ	GLN		193	-0.124	65.546	-2.251	1.00 63.88	BBBB
ATOM	5267	CG	GLN			-1.130	65.701	-3.381	0.01 63.89	BBBB
	5268	CD	GLN		193	-0.962	64.650	-4.462	0.01 63.70	BBBB
ATOM										
ATOM	5269		GLN		193	-1.066	63.452	-4.200	0.01 63.70	BBBB
MOTA	5270	NE2	GLN		193	-0.703	65.096	-5.686	0.01 63.70	BBBB
ATOM	5271	С	GLN	В	193	0.807	66.396	-0.077	1.00 64.22	BBBB
ATOM	5272	0	GLN	В	193	1.988	66.595	-0.381	1.00 64.54	BBBB
ATOM	5273	N	GLN	В	194	0.402	66.052	1.147	1.00 62.80	BBBB
ATOM	5274	CA	GLN	В	194	1.308	65.847	2.285	1.00 61.84	BBBB
ATOM	5275	CB	GLN	В	194	2.740	65.546	1.803	1.00 61.89	BBBB
ATOM	5276	CG	GLN		194	3.754	65.290	2.907	1.00 62.03	BBBB
ATOM	5277	CD	GLN			3.422	64.065	3.738	0.01 61.89	BBBB
	5278	OE1	GLN			2.369	63.996	4.372	0.01 61.84	BBBB
ATOM										
ATOM	5279	NE2				4.324	63.091	3.739	0.01 61.85	BBBB
ATOM	5280	С	GLN		194	1.301	67.083	3.190	1.00 61.03	BBBB
ATOM	5281	0	GLN	В	194	2.353	67.570	3.617	1.00 60.86	BBBB
MOTA	5282	N	CYS	В	195	0.099	67.581	3.475	1.00 59.85	BBBB
ATOM	5283	CA	CYS	В	195	-0.087	68.757	4.320	1.00 57.55	BBBB
ATOM	5284	C	CYS	В	195	-1.185	68.563	5.340	1.00 56.39	BBBB
ATOM	5285	0	CYS	В	195	-2.349	68.429	4.977	1.00 56.68	BBBB
ATOM	5286	CB			195	-0.413	69.974	3.467	1.00 56.22	BBBB
ATOM	5287	SG			195	1.082	70.844	2.924	1.00 57.51	BBBB
ATOM	5288	N			196	-0.807	68.568	6.616	1.00 55.23	BBBB
								7.717		BBBB
ATOM	5289	CA			196	-1.750	68.374		1.00 53.82	
ATOM		-CB.			196				-1.00-53:11	· · BBBB • ·
ATOM	5291	OG	SER	В	196	-0.387	69.608	9.269	1.00 53.19	BBBB
ATOM	5292	С	SER	В	196	-2.834	69.438	7.779	1.00 52.88	BBBB
ATOM	5293	0	SER	В	196	-3.891	69.214	8.358	1.00 52.71	BBBB
ATOM	5294	N	GLY	В	197	-2.561	70.593	7.184	1.00 52.61	BBBB
ATOM	5295	CA			197	-3.517	71.685	7.187	1.00 52.46	BBBB
ATOM	5296	C			197	-3.085	72.775	6.229	1.00 52.37	BBBB
ATOM	5297	ō			197	-3.101	72.561	5.021	1.00 53.06	BBBB
ATOM	5298	N	ARG			-2.694	73.934		1.00 51.79	BBBB
								5.910	1.00 51.54	BBBB
MOTA	5299	CA			198	-2.257	75.044			
ATOM	5300	CB			198	-2.567	76.377	6.586	1.00 49.54	BBBB
ATOM	5301	CG	ARG			-3.996	76.480	7.084	1.00 47.91	BBBB
ATOM	5302	CD	ARG	В	198	-4.415	77.931	7.304	1.00 47.43	BBBB
MOTA	5303	NE	ARG	В	198	-5.011	78.529	6.113	1.00 45.55	BBBB
ATOM	5304	CZ	ARG	В	198	-6.258	78.311	5.704	1.00 44.95	BBBB
ATOM	5305	NH1	ARG	В	198	-7.068	77.515	6.386	1.00 44.32	BBBB
ATOM	5306		ARG			-6.685	78.871	4.585	1.00 44.67	BBBB
ATOM	5307	C			198	-0.769	74.945	5.646	1.00 52.64	BBBB
										BBBB
ATOM	5308	0			198	-0.167	73.918	5.927	1.00 52.98	
ATOM	5309	N			199	-0.188	76.006	5.085	1.00 54.70	BBBB
ATOM	5310	CA			199	1.256	76.063	4.791	1.00 56.05	BBBB
ATOM	5311	С			199	1.704	77.448	4.327	1.00 55.73	BBBB
MOTA	5312	0	CYS	В	199	0.935	78.415	4.340	1.00 55.24	BBBB
ATOM	5313	CB	CYS	В	199	1.659	75.088	3.694	1.00 57.50	BBBB
ATOM	5314	SG			199	1.329	75.796	2.051	1.00 60.56	BBBB
ATOM	5315	N			200	2.962	77.513	3.900	1.00 55.17	BBBB
ATOM	5316	CA			200	3.560	78.750	3.425	1.00 54.55	BBBB
ATOM	5317	CB			200	4.807	79.079	4.258	1.00 53.79	BBBB
								4.238	0.01 54.02	BBBB
ATOM	5318	CG			200	5.277	80.533			
ATOM	5319	CD			200	5.740	80.958	2.805	0.01 54.01	BBBB
MOTA	5320	NE	ARG	В	200	4.628	81.151	1.879	0.01 53.99	BBBB

ATOM	5321	CZ	ARG	В	200		4.768	81.528	0.612	0.01 53.95	BBBB
ATOM	5322	NH1	ARG	В	200		5.977	81.755	0.115	0.01 53.87	BBBB
ATOM	5323		ARG				3.700	81.679	-0.160	0.01 53.86	BBBB
ATOM ATOM	5324 5325	C 0	ARG ARG				3.934 3.418	78.536 77.626	1.961 1.313	1.00 54.11 1.00 53.02	BBBB BBBB
ATOM	5326	N	GLY				7.580	75.841	0.614	1.00 33.02	BBBB
ATOM	5327	CA	GLY				6.771	76.316	-0.494	1.00 70.25	BBBB
ATOM	5328	С	GLY	В	201		5.430	75.617	-0.493	1.00 70.63	BBBB
ATOM	5329	0	GLY				5.297	74.573	0.136	1.00 71.18	BBBB
ATOM	5330	N	LYS				4.440	76.185	-1.183	1.00 70.91	BBBB
ATOM ATOM	5331 5332	CA CB	LYS		202		3.101 2.102	75.590 76.549	-1.246 -1.918	1.00 70.90 1.00 70.48	BBBB BBBB
ATOM	5333	CG	LYS				0.631	76.083	-1.852	1.00 70.40	BBBB
ATOM	5334	CD	LYS				-0.309	76.988	-2.657	1.00 67.01	BBBB
MOTA	5335	CE	LYS	В	202		-1.794	76.645	-2.437	1.00 66.18	BBBB
ATOM	5336	NZ	LYS				-2.236	75.290	-2.878	1.00 62.00	BBBB
MOTA	5337	C	LYS LYS				3.164 2.738	74.291 74.238	-2.036 -3.195	1.00 71.22 1.00 70.79	BBBB BBBB
MOTA MOTA	5338 5339	O N	SER				3.692	73.245	-1.401	1.00 70.79	BBBB
ATOM	5340	CA	SER				3.827	71.951	-2.054	1.00 71.13	BBBB
ATOM	5341	СВ	SER				4.534	72.145	-3.404	1.00 71.87	BBBB
ATOM	5342	OG	SER				5.593	73.088	-3.303	1.00 70.98	BBBB
ATOM	5343	С	SER				4.512	70.814	-1.269	1.00 70.32	BBBB
ATOM	5344 5345	0	SER PRO				3.849 5.834	69.860 70.920	-0.861 -1.019	1.00 71.04 1.00 68.74	BBBB BBBB
ATOM ATOM	5345	N CD	PRO				6.542	72.213	-0.987	1.00 67.54	BBBB
ATOM	5347	CA	PRO				6.626	69.909	-0.303	1.00 68.12	BBBB
ATOM	5348	CB	PRO	В	204		7.813	70.714	0.217	1.00 68.09	BBBB
ATOM	5349	CG	PRO				7.955	71.795	-0.776	1.00 67.64	BBBB
ATOM	5350	C	PRO				5.935	69.134	0.825	1.00 68.25	BBBB
ATOM ATOM	5351 5352	О И	PRO		204 205		4.967 6.490	68.398 69.287	0.612 2.023	1.00 67.59 1.00 67.96	BBBB BBBB
ATOM	5353	CA			205		5.990	68.663	3.247	1.00 67.54	BBBB
ATOM	5354	CB			205		6.812	67.409	3.577	1.00 67.95	BBBB
MOTA	5355	OG	SER	В	205		6.329	66.746	4.733	1.00 68.09	BBBB
ATOM	5356	C			205		6.214	69.751	4.300	1.00 66.71	BBBB
MOTA	5357	0	SER		205		6.004	69.559	5.503	1.00 66.21	BBBB
ATOM ATOM	5358 5359	N CA			206 206		6.652 6.940	70.903 72.088	3.794 4.587	1.00 65.08 1.00 63.21	BBBB BBBB
ATOM	5360	CB			206		7.838	73.035	3.786	1.00 63.37	BBBB
MOTA	5361	CG			206		9.083	72.352	3.267	1.00 62.97	BBBB
MOTA	5362		ASP	_			8.961	71.283	2.638	1.00 62.06	BBBB
ATOM	5363		ASP				10.185	72.886	3.483	1.00 63.70	BBBB
MOTA -	5364 - 5365-	е	ASP		206	_	5.636 5.549	72.795	4.940	1.00 61.54 -1.00 62.21	BBBB -BBBB
ATOM	5366	N			207		4.615	72.003	5.237	1.00 57.84	BBBB
ATOM	5367	CA	CYS	В	207		3.329	72.557	5.612	1.00 54.41	BBBB
ATOM	5368	C		_	207		3.482	73.169	7.005	1.00 52.05	BBBB
ATOM ATOM	5369	O CB			207		4.519 2.292	73.029	7.643 5.637	1.00 51.67	BBBB
ATOM	5371	SG			207		2.488	70.262	4.271	1.00 54.27	BBBB
ATOM	5372	И			208		2.455	73.861	7.471	1.00 49.84	BBBB
ATOM	5373	CA			208		2.507	74.464	8.789	1.00 47.55	BBBB
ATOM	5374	С			208		2.248	73.361	9.787	1.00 47.19	BBBB
MOTA MOTA	5375 5376	O CB			208 208		2.096 1.408	72.202 75.517	9.419 8.970	1.00 47.29 1.00 45.83	BBBB BBBB
ATOM	5377	SG			208		1.416	76.961	7.869	1.00 43.83	BBBB
ATOM	5378	N			209		2.186	73.747		1.00 46.68	BBBB
MOTA	5379	CA			209		1.899	72.837	12.149	1.00 47.12	BBBB
ATOM	5380	CB			209		2.521	73.402		1.00 48.62	BBBB
MOTA	5381	CG			209		2.318	72.548	14.633	1.00 49.35	BBBB
ATOM ATOM	5382 5383				209 209		3.202 1.078	71.868 72.329			BBBB BBBB
ATOM	5384				209		1.210	71.552			BBBB
MOTA	5385				209		2.489	71.259			BBBB
MOTA	5386	С			209		0.369	72.799			BBBB
MOTA	5387	0			209		-0.249	73.814		1.00 47.36	BBBB
ATOM ATOM	5388 5389	N CA			210 210		-0.237 -1.693	71.642 71.510			BBBB BBBB
ATOM	5390	CB			210		-2.094	70.077			BBBB
ATOM	5391	CG			210		-1.793	69.724		1.00 50.56	BBBB
ATOM	5392	OD1	ASN	В	210		-2.400	68.813	14.408		BBBB
ATOM	5393				210		-0.847	70.440		_	BBBB
ATOM	5394 5395	C			210		-2.391 -3.535	72.466			BBBB BBBB
ATOM	5395	0	NGN	В	210		-3.535	72.858	14.130	1.00 41.50	2000

ATOM	5396	N	GLN B	211	-1.701	72.840	14.085	1.00 41.78	BBBB
ATOM	5397	CA	GLN B		-2.272	73.743	15.072	1.00 40.69	BBBB
ATOM	5398	СВ	GLN B		-1.416	73.736	16.335	1.00 40.73	BBBB
ATOM	5399	CG	GLN B	211	-1.682	72.542	17.233	1.00 40.73	BBBB
ATOM	5400	CD	GLN B	211	-3.133	72.427	17.616	1.00 39.61	BBBB
ATOM	5401	OE1	GLN B	211	-3.739	73.380	18.088	1.00 38.42	BBBB
ATOM	5402	NE2	GLN B	211	-3.701	71.253	17.414	1.00 41.06	BBBB
ATOM	5403	С	GLN B		-2.455	75.174	14.584	1.00 39.35	BBBB
ATOM	5404	0	GLN B		-3.321	75.894	15.068	1.00 38.65	BBBB
ATOM	5405	N	CYS B		-1.646	75.588	13.621	1.00 38.41	BBBB
ATOM	5406	CA	CYS B		-1.744	76.935	13.092	1.00 37.20	BBBB
ATOM ATOM	5407	C	CYS B		-3.106	77.274 76.407	12.487	1.00 37.37 1.00 38.01	BBBB
ATOM	5408 5409	O CB	CYS B		-3.953 -0.677	77.152	12.252 12.035	1.00 36.01	BBBB BBBB
ATOM	5410	SG	CYS E		1.049	77.047	12.608	1.00 30.02	BBBB
ATOM	5411	N	ALA E		-3.304	78.565	12.254	1.00 36.82	BBBB
ATOM	5412	CA	ALA E		-4.510	79.093	11.630	1.00 35.13	BBBB
ATOM	5413	СВ	ALA B		-5.452	79.661	12.672	1.00 34.08	BBBB
ATOM	5414	С	ALA E	213	-3.967	80.199	10.734	1.00 34.73	BBBB
ATOM	5415	0	ALA B	213	-2.827	80.629	10.911	1.00 34.39	BBBB
ATOM	5416	N	ALA E	214	-4.760	80.657	9.778	1.00 34.49	BBBB
ATOM	5417	CA	ALA E		-4.302	81.698	8.868	1.00 36.05	BBBB
ATOM	5418	CB	ALA E		-3.815	82.905	9.644	1.00 35.28	BBBB
MOTA	5419	C	ALA E		-3.168	81.132	8.024	1.00 36.80	BBBB
ATOM	5420	0	ALA E		-3.401	80.579	6.952	1.00 38.00	BBBB
ATOM	5421	И	GLY E		-1.942	81.270	8.514	1.00 36.96	BBBB
ATOM ATOM	5422	CA	GLY E		-0.787	80.753	7.801 8.785	1.00 37.29 1.00 37.35	BBBB BBBB
ATOM	5423 5424	С 0	GLY E		0.340 0.083	80.527 80.309	9.962	1.00 37.33	BBBB
ATOM	5425	N	CYS E		1.582	80.577	8.316	1.00 37.32	BBBB
ATOM	5426	CA	CYS E		2.728	80.398	9.194	1.00 39.48	BBBB
ATOM	5427	C	CYS E		4.003	80.933	8.575	1.00 41.22	BBBB
ATOM	5428	0	CYS E		4.029	81.258	7.400	1.00 41.35	BBBB
ATOM	5429	CB	CYS E	216	2.913	78.929	9.554	1.00 39.17	BBBB
MOTA	5430	SG	CYS E	216	3.234	77.820	8.160	1.00 36.69	BBBB
ATOM	5431	N	THR E	217	5.055	81.022	9.383	1.00 43.62	BBBB
MOTA	5432	CA	THR E		6.350	81.530	8.944	1.00 45.83	BBBB
ATOM	5433	CB	THR E		6.631	82.903	9.550	1.00 47.58	BBBB
ATOM	5434	OG1			6.605	82.803	10.981	1.00 48.81	BBBB
ATOM	5435		THR E		5.579	83.902	9.110	1.00 49.31	BBBB
MOTA	5436	C	THR E		7.430	80.582	9.423 9.901	1.00 47.36 1.00 47.29	BBBB BBBB
ATOM ATOM	5437 5438	O N	GLY E		8.478 7.155	81.007 79.290	9.297	1.00 47.29	BBBB
ATOM	5439	CA	GLY E		8.092	78.265	9.721	1.00 51.43	BBBB
-ATOM	5440	C			7: 335				
ATOM	5441	0	GLY E		6.107	76.993	10.026	1.00 52.66	BBBB
ATOM	5442	N	PRO E	219	8.030	75.814	9.997	1.00 52.85	BBBB
MOTA	5443	CD	PRO E	219	9.478	75.687	9.750	1.00 52.64	BBBB
ATOM	5444	CA	PRO E		7.431	74.488	10.184	1.00 52.38	BBBB
ATOM	5445	CB	PRO E		8.305	73.621	9.313	1.00 52.87	BBBB
ATOM	5446	CG	PRO E		9.674	74.167	9.666	1.00 53.20	BBBB
ATOM	5447	C	PRO E		7.525	74.066	11.633	1.00 52.80	BBBB
ATOM ATOM	5448	O N	PRO E		8.274 6.768	73.149 74.730	11.960 12.498	1.00 52.35 1.00 53.38	BBBB BBBB
ATOM	5449 5450	CA	ARG E		6.823	74.736	13.916	1.00 54.34	BBBB
ATOM	5451	CB	ARG E		8.101	75.022	14.521	1.00 53.90	BBBB
ATOM	5452	CG	ARG E		8.434	74.528	15.921	0.01 54.28	BBBB
ATOM	5453	CD	ARG E		8.748	73.039	15.922	0.01 54.31	BBBB
ATOM	5454	NE	ARG E		9.190	72.568	17.232	0.01 54.45	BBBB
MOTA	5455	CZ	ARG E		8.440	72.588	18.329	0.01 54.50	BBBB
MOTA	5456	NH1	ARG E	220	7.199	73.055	18.282	0.01 54.60	BBBB
MOTA	5457	NH2	ARG E	220	8.931	72.141	19.477	0.01 54.57	BBBB
MOTA	5458	С	ARG E		5.617	74.964	14.667	1.00 55.58	BBBB
MOTA	5459	0	ARG E		4.906	75.849	14.183	1.00 56.25	BBBB
MOTA	5460	N	GLU E		5.416	74.423	15.865	1.00 55.92	BBBB
ATOM	5461	CA	GLU E		4.323	74.803	16.741	1.00 55.33	BBBB
ATOM	5462	CB	GLU E		4.107	73.707	17.783	1.00 56.73	BBBB
ATOM	5463 5464	CG	GLU E		2.679	73.581	18.281	1.00 58.50	BBBB BBBB
MOTA MOTA	5464 5465	CD	GLU E		2.493 1.343	72.411 71.966	19.226 19.409	1.00 58.36 1.00 57.64	BBBB
ATOM	5466		GLU E		3.501	71.966	19.792	1.00 57.04	BBBB
ATOM	5467	C	GLU E		4.685	76.105	17.439	1.00 54.99	BBBB
ATOM	5468	0	GLU E		4.425	76.272	18.621	1.00 54.56	вввв
ATOM	5469	N	SER E		5.292	77.025	16.704	1.00 55.06	BBBB
ATOM	5470	CA	SER E		5.692	78.306	17.270	1.00 55.38	BBBB

ATOM	5471	СВ	SER	В	222		6.974	78.145	18.074	1.00 55.72	BBBB
ATOM	5472	OG	SER		222		8.052	77.855	17.205	1.00 56.34	BBBB
ATOM	5473	С	SER				5.942	79.312	16.158	1.00 55.57	BBBB
ATOM	5474	0	SER				6.304	80.462	16.410	1.00 55.95	BBBB
ATOM	5475	N	ASP		223		5.766	78.873	14.922	1.00 54.59	BBBB
ATOM	5476	CA	ASP	В	223		5.978	79.761	13.795	1.00 53.73	BBBB
ATOM	5477	CB	ASP	В	223		6.848	79.060	12.748	1.00 55.19	BBBB
ATOM	5478	CG	ASP	В	223		8.121	78.484	13.349	1.00 56.12	BBBB
ATOM	5479	OD1	ASP	В	223		8.648	79.102	14.302	1.00 56.34	BBBB
ATOM	5480		ASP				8.599	77.431	12.870	1.00 54.87	BBBB
ATOM	5481	С	ASP				4.620	80.151	13.216	1.00 52.23	BBBB
ATOM	5482	0	ASP				4.533	80.861	12.208	1.00 52.26	BBBB
ATOM	5483	И	CYS	В	224		3.564	79.685	13.884	1.00 49.03	BBBB
ATOM	5484	CA	CYS				2.192	79.956	13.477	1.00 45.28	BBBB
MOTA	5485	С	CYS	В	224		1.938	81.445	13.320	1.00 44.61	BBBB
MOTA	5486	0	CYS		224		2.802	82.266	13.631	1.00 44.73	BBBB
ATOM	5487	CB	CYS		224		1.209	79.407	14.516	1.00 43.11	BBBB
MOTA	5488	SG	CYS	В	224		1.008	77.600	14.557	1.00 37.83	BBBB
ATOM	5489	N			225		0.751	81.787	12.818	1.00 43.11	BBBB
ATOM	5490	CA			225		0.363	83.186	12.674	1.00 41.48	BBBB
ATOM	5491	CB			225		-0.198	83.473	11.270	1.00 40.40	BBBB
MOTA	5492	CG		_	225		0.783	83.512	10.091	1.00 38.74	BBBB
ATOM	5493		LEU				0.131	84.235	8.929	1.00 37.59	BBBB
ATOM	5494		LEU				2.062	84.225	10.479	1.00 37.86	BBBB
ATOM	5495	C	LEU		225		-0.689	83.471	13.751	1.00 39.75	BBBB
ATOM	5496	ō			225		-0.654	84.501	14.420	1.00 38.71	BBBB
ATOM	5497	N			226		-1.606	82.520	13.911	1.00 38.59	BBBB
ATOM	5498	CA			226		-2.677	82.577	14.904	1.00 36.90	BBBB
ATOM	5499	СВ		_	226		-3.942	83.210	14.301	1.00 35.54	BBBB
ATOM	5500		VAL				-5.001	83.382	15.364	1.00 38.01	BBBB
ATOM	5501				226		-3.603	84.534	13.699	1.00 35.54	BBBB
ATOM	5502	С	VAL	В	226		-2.976	81.124	15.347	1.00 36.28	BBBB
ATOM	5503	0			226		-3.056	80.212	14.518	1.00 36.61	BBBB
ATOM	5504	N			227		-3.127	80.891	16.643	1.00 34.49	BBBB
ATOM	5505	CA			227		-3.395	79.536	17.103	1.00 33.22	BBBB
ATOM	5506	C			227		-4.816	79.129	16.806	1.00 33.78	BBBB
ATOM	5507	Ō			227		-5.708	79.957	16.821	1.00 33.17	BBBB
ATOM	5508	CB			227		-3.120	79.416	18.593	1.00 31.74	BBBB
ATOM	5509	SG			227		-1.355	79.500	19.033	1.00 29.74	BBBB
MOTA	5510	N			228		-5.024	77.845	16.538	1.00 34.69	BBBB
ATOM	5511	CA			228		-6.355	77.346	16.206	1.00 36.76	BBBB
ATOM	5512	CB	ARG	В	228		-6.253	76.185	15.214	1.00 39.57	BBBB
MOTA	5513	CG	ARG	В	228		-7.575	75.486	14.923	1.00 44.55	BBBB
ATOM	5514	CD	ARG	В	228		-7.448	74.552	13.732	1.00 48.36	BBBB
-MOTA-	5515	- NE	ARG	В	228 -	- 00	-67252	-73.713	-13.816	1.00 52.85	· BBBB ·
ATOM	5516	CZ	ARG	В	228		-6.023	72.811	14.768	1.00 54.89	BBBB
MOTA	5517	NH1	ARG	В	228		-6.907	72.616	15.741	1.00 54.94	BBBB
ATOM	5518	NH2	ARG	В	228		-4.908	72.089	14.738	1.00 56.76	BBBB
MOTA	5519	С	ARG	В	228		-7.132	76.901	17.424	1.00 37.68	BBBB
ATOM	5520	0	ARG	В	228		-8.363	76.979	17.456	1.00 37.86	BBBB
ATOM	5521	N	LYS	В	229		-6.407	76.428	18.430	1.00 39.02	BBBB
ATOM	5522	CA	LYS	B	229		-7.037	75.971	19.656	1.00 38.95	BBBB
ATOM	5523	CB	LYS	; B	229		-6.860	74.456	19.815	1.00 38.98	BBBB
ATOM	5524	CG	LYS	В	229		-7.498	73.652	18.687	1.00 38.07	BBBB
ATOM	5525	CD	LYS	В	229		-7.761	72.219	19.101	0.01 37.74	BBBB
MOTA	5526	CE	LYS	В	229		-8.498	71.459	18.010	0.01 37.38	BBBB
ATOM	5527	NZ	LYS	В	229		-8.800	70.057	18.409	0.01 37.14	BBBB
ATOM	5528	С	LYS	В	229		-6.502	76.707	20.875	1.00 38.83	BBBB
MOTA	5529	0			229		-7.054	77.732	21.266	1.00 38.57	BBBB
ATOM	5530	И	PHE	: E	230		-5.428	76.198	21.464	1.00 38.87	BBBB
ATOM	5531	CA			230		-4.858	76.826	22.646	1.00 39.73	BBBB
MOTA	5532	CB	PHE	: P	230		-4.667	75.792	23.759	1.00 38.79	BBBB
ATOM	5533	CG			230		-5.831	75.671	24.686	1.00 37.92	BBBB
ATOM	5534				230		-6.186	74.445	25.214	1.00 38.37	BBBB
ATOM	5535				230		-6.569	76.780	25.043	1.00 38.65	BBBB
ATOM	5536				230		-7.263	74.325	26.086	1.00 39.11	BBBB
ATOM	5537				230		-7.648	76.665	25.915	1.00 39.05	BBBB
MOTA	5538	CZ			230		-7.993	75.436	26.434	1.00 37.92	BBBB
MOTA	5539	С			230		-3.525	77.470	22.362	1.00 40.94	BBBB
MOTA	5540	0			230		-2.776	77.000	21.509	1.00 41.40	BBBB
ATOM	5541	N			231		-3.234	78.545	23.089	1.00 42.48	BBBB
MOTA	5542	CA			231		-1.955	79.238	22.959	1.00 44.02	BBBB
ATOM	5543	CB			231		-2.160	80.714	22.604	1.00 45.52	BBBB
ATOM	5544	CG			3 231		-0.946	81.345	21.924	1.00 47.27	BBBB
MOTA	554 <b>5</b>	CD	ARG	5 E	231		-0.370	82.526	22.682	1.00 49.35	BBBB

ATOM	5546	NE	ARG	В	231	-1.022	83.781	22.332	1.00 51.71	BBBB
ATOM	5547	CZ	ARG		231	-2.288	84.075	22.609	1.00 52.96	
ATOM	5548		ARG		231	-3.049	83.200	23.248	1.00 53.42	
ATOM	5549		ARG		231	-2.795	85.248	22.248	1.00 53.52	
ATOM	5550	Ç	ARG		231	-1.187	79.130	24.278	1.00 43.55	
ATOM	5551	0			231	-1.695	79.469	25.342	1.00 42.24	BBBB
ATOM	5552	N	ASP	В	232	0.034	78.630	24.203	1.00 44.94	BBBB
MOTA	5553	CA	ASP	В	232	0.864	78.492	25.389	1.00 47.41	
MOTA	5554	CB			232	1.708	77.227	25.281	1.00 47.36	
ATOM	5555	CG			232	2.298	76.811	26.598	1.00 47.74	BBBB
MOTA	5556		ASP		232	3.333	77.380	26.997	1.00 48.97	BBBB
ATOM	5557		ASP			1.716	75.914	27.237	1.00 47.57	
ATOM	5558	С	ASP		232	1.734	79.744	25.411	1.00 48.77	BBBB
ATOM	5559	Ô			232	1.213	80.841	25.226	1.00 50.27	BBBB
ATOM	5560	N			233	3.037	79.626	25.643	1.00 48.96	
ATOM	5561	CA			233	3.829	80.846	25.612	1.00 48.34	BBBB
MOTA	5562	СВ			233	5.237	80.633	26.188	1.00 50.32	
MOTA	5563	CG			233	6.016	79.428	25.706	1.00 54.27	BBBB
ATOM	5564	CD			233	7.266	79.191	26.558	1.00 57.58	
ATOM	5565		GLU			8.114	80.115	26.654	1.00 58.04	BBBB
ATOM	5566		GLU			7.398	78.083	27.137	1.00 58.47	BBBB
ATOM	5567	С	GLU	В	233	3.860	81.290	24.154	1.00 46.38	
ATOM	5568	0	GLU	В	233	3.052	82.122	23.746	1.00 44.38	
MOTA	5569	N	ALA	В	234	4.755	80.722	23.357	1.00 45.06	BBBB
ATOM	5570	CA			234	4.814	81.078	21.941	1.00 43.44	BBBB
ATOM	5571	CB	ALA	В	234	6.201	81.556	21.562	1.00 42.93	
MOTA	5572	С	ALA	В	234	4.453	79.865	21.108	1.00 41.93	
ATOM	5573	0	ALA	В	234	4.974	79.689	20.008	1.00 43.06	BBBB
MOTA	5574	N			235	3.563	79.031	21.631	1.00 38.96	BBBB
ATOM	5575	CA	THR	В	235	3.165	77.833	20.913	1.00 37.24	BBBB
ATOM	5576	CB	THR	В	235	3.800	76.572	21.549	1.00 38.74	BBBB
ATOM	5577	OG1	THR	В	235	3.098	75.403	21.112	1.00 38.71	BBBB
MOTA	5578	CG2	THR	В	235	3.750	76.652	23.059	1.00 39.45	BBBB
MOTA	5579	С	THR	В	235	1.667	77.600	20.798	1.00 34.33	BBBB
ATOM	5580	0	THR	В	235	0.882	78.016	21.640	1.00 34.08	BBBB
MOTA	5581	N	CYS	В	236	1.278	76.922	19.735	1.00 31.58	BBBB
ATOM	5582	CA	CYS	В	236	-0.110	76.605	19.530	1.00 30.50	BBBB
MOTA	5583	С	CYS	В	236	-0.328	75.161	19.961	1.00 30.62	BBBB
MOTA	5584	0	CYS	В	236	0.238	74.248	19.372	1.00 30.17	BBBB
MOTA	5585	CB	CYS	В	236	-0.452	76.793	18.066	1.00 29.90	BBBB
ATOM	5586	SG	CYS	В	236	-0.397	78.529	17.537	1.00 30.86	BBBB
ATOM	5587	N	LYS		237	-1.134	74.956	21.000	1.00 30.16	BBBB
MOTA	5588	CA	LYS			-1.392	73.611	21.512	1.00 30.21	BBBB
MOTA	5589	CB	LYS		237	-0.955	73.488	22.968	1.00 27.01	BBBB
- ATOM -	5590				237				1.00 24.22	· - · BBBB
MOTA	5591	CD	LYS			1.409	74.113	23.303	1.00 23.92	BBBB
MOTA	5592	CE	LYS			2.547	73.697	24.188	1.00 24.67	BBBB
MOTA	5593	NZ	LYS			3.128	72.391	23.773	1.00 25.54	BBBB
MOTA	5594	С	LYS			-2.843	73.168	21.431	1.00 32.02	BBBB
ATOM	5595	0	LYS			-3.765	73.988	21.479	1.00 33.79	
ATOM	5596	N	ASP			-3.031	71.856	21.332	1.00 31.70	
MOTA	5597	CA	ASP			-4.355	71.272	21.262	1.00 32.15	
ATOM	5598	CB			238	-4.265	69.883	20.640	1.00 33.31	BBBB
ATOM	5599	CG			238	-5.620	69.277	20.377	1.00 34.04	BBBB
MOTA	5600		ASP			-6.395	69.862	19.591	1.00 34.61	BBBB
ATOM	5601		ASP			-5.910	68.214	20.957	1.00 33.95	
ATOM	5602	C			238	-4.894	71.183	22.687	1.00 31.92	
ATOM	5603	0			238	-6.095	71.008	22.923	1.00 31.79	
MOTA	5604	N			239	-3.977	71.306	23.637	1.00 31.23	BBBB
ATOM	5605	CA			239	-4.305	71.256	25.051	1.00 31.25	BBBB
ATOM	5606 5607	CB			239	-4.529	69.820	25.508	1.00 31.46	BBBB
ATOM			THR THR			-3.472	69.000	24.997	1.00 33.37 1.00 32.91	BBBB BBBB
ATOM	5608					-5.860	69.295	25.009	1.00 32.31	BBBB
ATOM ATOM	5609 5610	C			239	-3.142 -1 998	71.838	25.851	1.00 31.38	BBBB
ATOM ATOM	5610	O N			239 240	-1.998	71.888	25.388 27.058	1.00 31.73	BBBB
ATOM	5611 5612	CA				-3.433 -2.381	72.293		1.00 28.83	BBBB
ATOM ATOM	5613	CA			240 240	-2.381 -1.671	72.849 71.718	27.884 28.614	1.00 28.63	BBBB
ATOM	5614	0			240	-2.320	70.837	29.178	1.00 24.84	BBBB
ATOM	5615	СВ			240	-2.973	73.835	28.896	1.00 29.85	BBBB
ATOM	5616	SG			240	-3.600	75.377	28.182	1.00 29.03	BBBB
ATOM	5617	N			241	-0.327	71.729	28.604	1.00 25.15	BBBB
ATOM	5618	CD			241	0.441	72.768	27.901	1.00 26.50	BBBB
ATOM	5619				241	0.583	70.762	29.235	1.00 25.78	BBBB
ATOM	5620	CB			241	1.894	71.517	29.263	1.00 24.59	BBBB
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ATOM	5621	CG	PRO			72.231	27.975	1.00 26.47	BBBB
ATOM ATOM	5622 5623	С 0	PRO PRO			70.369 71.175	30.632 31.565	1.00 24.82 1.00 23.25	BBBB
ATOM	5624	N	PRO			69.105	30.795	1.00 23.23	BBBB BBBB
ATOM	5625	CD	PRO			68.069	29.756	1.00 24.14	BBBB
ATOM ATOM	5626 5627	CA CB	PRO PRO			68.548 67.122	32.047 31.668	1.00 24.61 1.00 23.97	BBBB BBBB
ATOM	5628	CG	PRO			67.213	30.202	1.00 24.96	BBBB
ATOM	5629 5630	C	PRO			68.593	33.225	1.00 23.93	BBBB
ATOM ATOM	5631	O N	PRO LEU			68.250 69.028	33.111 34.358	1.00 23.38	BBBB BBBB
ATOM	5632	CA	LEU	B 24	0.304	69.110	35.593	1.00 26.06	BBBB
ATOM ATOM	5633 5634	CB CG	LEU			69.414	36.755	1.00 24.94	BBBB
ATOM	5635		LEU			70.821 71.053	36.820 38.229	1.00 23.55	BBBB BBBB
ATOM	5636		LEU			71.837	36.486	1.00 22.79	BBBB
ATOM ATOM	5637 5638	С О	LEU			67.789 67.748	35.845 35.848	1.00 27.80 1.00 29.52	BBBB BBBB
ATOM	5639	N	MET			66.722	36.072	1.00 28.01	BBBB
MOTA	5640	CA	MET			65.391	36.289	1.00 28.10	BBBB
ATOM ATOM	5641 5642	CB CG	MET MET			64.516 64.930	37.077 38.535	1.00 29.96 1.00 33.69	BBBB BBBB
ATOM	5643	SD	MET	B 24	1.164	64.878	39.553	1.00 38.38	BBBB
MOTA	5644	CE	MET			66.625	39.632	1.00 37.21	BBBB
ATOM ATOM	5645 5646	0	MET MET			64.740 65.391	34.941 33.907	1.00 27.55 1.00 27.42	BBBB BBBB
ATOM	5647	N	LEU	B 24	1.405	63.449	34.949	1.00 27.45	BBBB
ATOM ATOM	5648 5649	CA CB	LEU			62.736 63.367	33.709	1.00 25.95	BBBB
ATOM	5650	CG	LEU			63.628	33.048 31.542	1.00 24.40 1.00 22.88	BBBB BBBB
MOTA	5651		LEU			64.486	31.191	1.00 23.89	BBBB
ATOM ATOM	5652 5653	CD2 C	LEU			64.313 61.273	31.126 34.045	1.00 23.50	BBBB BBBB
MOTA	5654	o	LEU			60.955	34.566	1.00 23.59	BBBB
ATOM	5655	N	TYR			60.407	33.744	1.00 24.68	BBBB
ATOM ATOM	5656 5657	CA CB	TYR TYR			58.967 58.252	34.016 33.378	1.00 23.89	BBBB BBBB
MOTA	5658	CG	TYR	B 24	-0.150	56.782	33.689	1.00 25.24	BBBB
ATOM ATOM	5659 5660		TYR TYR			56.325 54.968	34.855 35.097	1.00 26.19 1.00 26.31	BBBB BBBB
ATOM	5661		TYR			55.837	32.775	1.00 26.31	BBBB
ATOM ATOM	5662 5663	CE2 CZ	TYR			54.474	33.004	1.00 26.42	BBBB
ATOM	5664	OH	TYR TYR			54.048 52.703	34.166 34.368	1.00 28.23	BBBB BBBB
	-5665	С	TYR		2.351	58.302	33.543	1.00 24.99	BBBB
ATOM ATOM	5666 5667	о И	TYR ASN			58.548 57.423	32.441 34.382	1.00 25.75 1.00 24.95	BBBB BBBB
ATOM	5668	CA	ASN			56.733	34.097	1.00 25.31	BBBB
ATOM	5669	CB	ASN			56.850	35.317	1.00 25.90	BBBB
MOTA MOTA	5670 5671	CG OD1	ASN ASN				35.044 34.343	1.00 27.21 1.00 27.71	BBBB BBBB
ATOM	5672	ND2	ASN	B 24	7.368		35.614	1.00 26.90	BBBB
ATOM ATOM	5673 5674	C O	ASN ASN				33.805	1.00 26.23	BBBB
ATOM	5675	N	PRO				34.692 32.552	1.00 27.58 1.00 28.38	BBBB BBBB
ATOM	5676	CD	PRO				31.353	1.00 28.12	BBBB
ATOM ATOM	5677 5678	CA CB	PRO PRO				32.224 30.712	1.00 29.88	BBBB BBBB
MOTA	5679	CG	PRO				30.275	1.00 28.88	BBBB
ATOM ATOM	5680 5681	С 0	PRO				32.948	1.00 30.52	BBBB
ATOM	5682	N	PRO THR			51.320 52.769	33.196 33.281	1.00 32.33	BBBB BBBB
ATOM	5683	CA	THR	B 24	6.651	51.858	33.945	1.00 31.64	BBBB
ATOM ATOM	5684 5685	CB OG1	THR THR				33.691	1.00 32.74	BBBB
ATOM	5686		THR			51.907 51.675	32.367 34.734	1.00 32.45 1.00 33.08	BBBB BBBB
ATOM	5687	С	THR	B 24	6.505	51.690	35.455	1.00 32.06	BBBB
ATOM ATOM	5688 5689	O N	THR THR			50.648 52.718	35.996 36.137	1.00 32.71 1.00 32.83	BBBB
ATOM	5690	CA	THR		5.878	52.663	37.578	1.00 32.83	BBBB BBBB
ATOM	5691	CB	THR			53.798	38.214	1.00 29.66	BBBB
ATOM ATOM	5692 5693		THR THR			53.593 55.139	39.624 37.942	1.00 32.48 1.00 26.62	BBBB BBBB
MOTA	5694	С	THR	B 25	4.404	52.771	37.975	1.00 31.25	BBBB
ATOM	5695	0	THR	B 25	4.068	52.982	39.130	1.00 31.07	BBBB

BBBB 3.535 52.604 36.990 1.00 31.81 TYR B 251 MOTA 5696 N 2.090 52.683 37.159 1.00 31.87 BBBB TYR B 251 5697 CA ATOM BBBB 1.00 33.05 51.325 37.543 TYR B 251 1.519 5698 CB ATOM BBBB 1.656 50.285 36.465 1.00 34.20 TYR B 251 MOTA 5699 CG 1.00 33.93 BBBB 36.096 2.914 49.796 CD1 TYR B 251 MOTA 5700 1.00 34.53 BBBB 3.047 48.823 35.109 CE1 TYR B 251 5701 ATOM 35.819 1.00 33.68 BBBB 0.531 49.779 CD2 TYR B 251 MOTA 5702 1.00 34.88 BBBB 0.650 48.803 34.826 CE2 TYR B 251 5703 ATOM 34.477 1.00 34.89 BBBB 1.909 48.329 TYR B 251 MOTA 5704 CZBBBB 33.503 1.00 33.50 2.030 47.368 TYR B 251 MOTA 5705 1.00 31.84 BBBB 1.558 53.741 38,109 TYR B 251 5706 ATOM C 1.00.32.93 BBBB 38.692 0.493 53.582 MOTA 5707 0 TYR B 251 1.00 31.40 BBBB 2.301 54.821 38.284 GLN B 252 5708 ATOM N 1.00 31.92 BBBB 55.904 39.106 GLN B 252 1.808 ATOM 5709 CA 1.00 32.82 BBBB 2.514 55.930 40.460 GLN B 252 ATOM 5710 CB 1.00 35.01 **BBBB** 4.011 56.047 40.431 GLN B 252 ATOM 5711 CG 4.585 56.090 1.00 37.86 BBBB 41.839 GLN B 252 5712 CD ATOM 1.00 39.67 BBBB 4.269 56.990 42.625 OE1 GLN B 252 ATOM 5713 1.00 38.74 42.170 BBBB 5.423 55.112 NE2 GLN B 252 MOTA 5714 BBBB 1.00 32.30 57.243 38.360 **GLN B 252** 1.948 5715 C MOTA BBBB 37.220 1.00 30.23 2.409 57.297 GLN B 252 5716 MOTA 0 BBBB 38.994 1.00 33.73 MET B 253 1.522 58.326 N 5717 ATOM 1.00 33.52 BBBB 1.596 59.631 38.366 MET B 253 MOTA 5718 CA 1.00 33.17 BBBB 0.432 60.488 38.823 5719 CB MET B 253 MOTA 1.00 34.85 BBBB -0.139 61.279 37.713 MET B 253 ATOM 5720 CG 1.00 37.25 BBBB 36.552 60:120 5721 SD MET B 253 -0.753 MOTA 1.00 38.52 BBBB -2.309 59.857 37.218 MET B 253 MOTA 5722 CE 38.705 1.00 34.16 BBBB 2.886 60.341 5723 С MET B 253 MOTA 1.00 34.77 BBBB MET B 253 3.437 60.138 39.779 MOTA 5724 0 1.00 34.97 BBBB 37.786 61.172 3.367 ATOM 5725 N ASP B 254 1.00 36.06 BBBB 38.019 ASP B 254 4.585 61.932 5726 CA ATOM BBBB 5.705 37.108 1.00 35.07 61.453 5727 CB ASP B 254 ATOM BBBB 1.00 33.96 60.197 37.628 MOTA 5728 CG ASP B 254 6.380 1.00 33.29 BBBB 7.241 59.640 36.917 OD1 ASP B 254 5729 ATOM 1.00 34.00 BBBB 38.752 59.768 OD2 ASP B 254 6.052 АТОМ 5730 1.00 38.42 BBBB ASP B 254 4.321 63.412 37.818 ATOM 5731 С 37.281 1.00 38.79 BBBB 3.289 63.797 ASP B 254 ATOM 5732 0 1.00 40.51 BBBB 38.261 VAL B 255 5.252 64.242 5733 N ATOM 1.00 43.14 BBBB 5.078 65.678 38.163 VAL B 255 5734 CA MOTA 1.00 42.69 BBBB 39.165 5.978 VAL B 255 66.394 5735 CB ATOM 1.00 41.93 BBBB CG1 VAL B 255 5.562 67.843 39.284 ATOM 5736 5.908 65.696 40.507 1.00 42.91 BBBB CG2 VAL B 255 ATOM 5737 1.00 45.81 BBBB 36.775 VAL B 255 5.344 66.244 С ATOM 5738 PBBB 36.155 4.449 66.814 1.00 46.76 5739 0 VAL B 255 ATOM BBBB 6.574 -66:102 36:291 1.00 48-01 5740 - -N---**ASN B 256** ATOM 1.00 50.39 BBBB 6.931 66.611 34.966 ASN B 256 5741 CA ATOM 33.874 1.00 54.07 BBBB 65.725 ASN B 256 6.303 5742 CB ATOM 33.832 1.00 55.04 BBBB 64.311 ASN B 256 6.909 MOTA 5743 CG 1.00 52.86 6.586 63.451 34.660 BBBB 5744 OD1 ASN B 256 ATOM 1.00 55.74 BBBB ND2 ASN B 256 7.797 64.077 32.860 MOTA 5745 BBBB 34.777 1.00 49.68 6.528 68.088 **ASN B 256** MOTA 5746 С 1.00 49.11 BBBB 34.493 5.371 68.409 5747 O ASN B 256 ATOM BBBB 34.908 1.00 49.29 7.517 68.990 PRO B 257 5748 ATOM N 34.947 1.00 49.49 BBBB PRO B 257 8.872 68.417 CD ATOM 5749 1.00 48.97 BBBB 70.456 34.837 PRO B 257 7.618 MOTA 5750 CA BBBB 70.686 34.719 1.00 49.73 9.122 PRO B 257 5751 CB ATOM 35.468 1.00 50.08 BBBB PRO B 257 9.685 69.567 CG ATOM 5752 BBBB 33.826 1.00 47.52 6.864 71.313 PRO B 257 ATOM 5753 C 34.173 1.00 48.37 BBBB 6.376 72.386 PRO B 257 5754 0 ATOM BBBB 1.00 45.44 70.880 32.580 GLU B 258 6.785 5755 N ATOM BBBB 31.581 1.00 43.34 71.694 GLU B 258 6.113 CA ATOM 5756 BBBB 30.192 1.00 45.17 71.095 6.350 **GLU B 258** ATOM 5757 CB BBBB 70.947 29.881 1.00 48.42 5758 CG **GLU B 258** 7.831 ATOM 30.150 1.00 52.35 BBBB 72.239 8.608 GLU B 258 MOTA 5759 CD 29.301 1.00 53.05 BBBB 73.164 OE1 GLU B 258 8.540 5760 **ATOM** 31.219 1.00 51.63 BBBB 72.334 OE2 GLU B 258 9.274 ATOM 5761 1.00 40.42 RRRR 31.837 71.902 GLU B 258 4.626 5762 C MOTA 30.920 1.00 39.87 BBBB 72.211 GLU B 258 3.880 ATOM 5763 Ω BBBB 33.088 1.00 37.51 71.754 N GLY B 259 4.207 MOTA 5764 BBBB 33.435 1.00 35.62 2.809 71.921 GLY B 259 CA ATOM 5765 BBBB 73.360 33,380 1.00 34.73 2.340 5766 С **GLY B 259** MOTA BBBB 33.723 1.00 34.55 74.277 3.079 5767 0 **GLY B 259** MOTA 32.952 1.00 33.20 BBBB 73.552 1.098 LYS B 260 MOTA 5768 N BBBB 74.875 1.00 31.73 32.824 LYS B 260 0.506 5769 CA MOTA BBBB 31.406 1.00 32.19 0.719 75.408 LYS B 260 .5770 CB

ATOM

ATOM	5771	CG	LYS I	3 260	2.168	75.693	31.034	1.00 33.45	BBBB
ATOM	5772	CD		3 260	2.671	77.005	31.636	1.00 35.88	BBBB
ATOM	5773	CE	LYS I	3 260	4.168	77.217	31.371	1.00 37.63	BBBB
ATOM	5774	NZ	LYS I	3 260	4.544	77.146	29.921	1.00 36.90	BBBB
ATOM	57 <b>7</b> 5	C	LYS I	3 260	-0.986	74.777	33.110	1.00 31.80	BBBB
MOTA	5776	0	LYS I	3 260	-1.565	73.693	33.068	1.00 31.25	BBBB
MOTA	5777	N	TYR I	3 261	-1.613	75.907	33.408	1.00 31.52	BBBB
MOTA	5778	CA		3 261	-3.035	75.892	33.693	1.00 31.81	BBBB
ATOM	5779	CB		3 261	-3.345	76.707	34.956	1.00 32.28	BBBB
ATOM	5780	CG		3 261	-2.831	76.108	36.247	1.00 30.77	BBBB
ATOM	5781	CD1			-1.514	76.296	36.644	1.00 30.43	BBBB
ATOM	5782	CE1	TYR I		-1.025	75.720	37.792	1.00 28.46	BBBB
ATOM	5783 5784		TYR I		-3.650	75.324	37.049	1.00 29.63	BBBB
ATOM ATOM	5784 5785	CE2 CZ	TYR I	3 261	-3.168	74.746	38.196	1.00 29.53	BBBB
ATOM	5786	OH		3 261	-1.850 -1.333	74.944 74.335	38.559 39.676	1.00 29.22 1.00 30.60	BBBB
ATOM	5787	C		3 261	-3.861	76.414	32.517	1.00 30.60	BBBB BBBB
ATOM	5788	ŏ		3 261	-3.429	77.310	31.777	1.00 30.84	BBBB
ATOM	5789	N		3 262	-5.061	75.844	32.378	1.00 32.23	BBBB
ATOM	5790	CA		3 262	-6.000	76.179	31.310	1.00 32.23	BBBB
MOTA	5791	CB		3 262	-6.937	74.997	31.022	1.00 31.71	BBBB
ATOM	5792	OG		3 262	-6.397	74.116	30.052	1.00 34.61	BBBB
ATOM	5793	C		3 262	-6.859	77.390	31.568	1.00 30.78	BBBB
MOTA	5794	ō		3 262	-7.956	77.268	32.089	1.00 31.41	BBBB
ATOM	5795	N		3 263	-6.379	78.564	31.195	1.00 30.44	BBBB
ATOM	5796	CA		3 263	-7.191	79.751	31.389	1.00 30.48	BBBB
ATOM	5797	CB		3 263	-6.374	80.864	32.055	1.00 27.55	BBBB
ATOM	5798	CG		3 263	-7.175	82.100	32.358	1.00 23.44	BBBB
ATOM	5799	CD1	PHE		-8.490	82.000	32.768	1.00 20.60	BBBB
ATOM	5800	CD2	PHE I	B 263	-6.608	83.363	32.234	1.00 23.74	BBBB
ATOM	5801	CE1	PHE	B 263	-9.227	83.123	33.051	1.00 19.48	BBBB
ATOM	5802	CE2	PHE :	B 263	-7.342	84.501	32.516	1.00 21.48	BBBB
ATOM	5803	CZ	PHE :	B 263	-8.657	84.378	32.927	1.00 20.24	BBBB
ATOM	5804	С	PHE	B 263	-7.769	80.215	30.049	1.00 31.56	BBBB
MOTA	5805	0	PHE	B 263	-7.050	80.711	29.170	1.00 31.67	BBBB
ATOM	5806	N		B 264	-9.075	80.029	29.891	1.00 31.60	BBBB
ATOM	5807	CA		B 264	-9.721	80.437	28.661	1.00 32.58	BBBB
ATOM	5808	С	GLY		-9.086	79.786	27.455	1.00 32.74	BBBB
ATOM	5809	0		B 264	-9.330	78.619	27.193	1.00 33.50	BBBB
ATOM	5810	N		B 265	-8.267	80.527	26.721	1.00 32.63	BBBB
ATOM	5811	CA		B 265	-7.624	79.967	25.540	1.00 32.82	BBBB
ATOM	5812	СВ		B 265	-8.092	80.690	24.293	1.00 32.58	BBBB
ATOM ATOM	5813 5814	C O		B 265	-6.108	80.013	25.630	1.00 32.85	BBBB
	581-5-			B 265	-5.402	79.783	24.650	1.00 33.44	BBBB
ATOM	5816	CA		B 266	-4.173	80.360	26.996	1-:00-32-34- 1.00 33.97	-BBBB
ATOM	5817	CB		B 266	-3.766	81.690	27.604	1.00 35.16	BBBB BBBB
ATOM	5818		THR		-4.619	81.972	28.721	1.00 35.86	BBBB
ATOM	5819		THR		-3.876	82.793	26.585	1.00 37.32	BBBB
ATOM	5820	С		B 266	-3.716	79.262	27.948	1.00 33.49	BBBB
ATOM	5821	0	THR	B 266	-4.532	78.582	28.568	1.00 34.20	BBBB
ATOM	5822	N	CYS	B 267	-2.406	79.076	28.041	1.00 32.24	BBBB
MOTA	5823	CA	CYS	B 267	-1.858	78.115	28.976	1.00 32.03	BBBB
ATOM	5824	С	CYS	B 267	-1.008	78.934	29.945	1.00 32.18	BBBB
ATOM	5825	0		B 267	0.140	79.284	29.667	1.00 31.11	BBBB
ATOM	5826	CB		B 267	-1.029	77.061	28.256	1.00 31.33	BBBB
ATOM	5827	SG		B 267	-2.008	76.050	27.114	1.00 29.65	BBBB
MOTA	5828	N		B 268	-1.607	79.239	31.088	1.00 32.98	BBBB
ATOM	5829	CA		B 268	-0.979	80.053	32.114	1.00 34.52	BBBB
MOTA	5830	CB		B 268	-2.072	80.785	32.910	1.00 32.91	BBBB
ATOM	5831		VAL		-3.209	81.144	31.992	1.00 32.20	BBBB
ATOM	5832		VAL		-2.588	79.913	34.017	1.00 33.36	BBBB
MOTA	5833	C		B 268	-0.095	79.261	33.083	1.00 36.42	BBBB
ATOM ATOM	5834 5835	0		B 268 B 269	-0.102	78.029	33.086	1.00 37.76	BBBB
ATOM	5835	N CA		в 269 В 269	0.665	79.978	33.907	1.00 37.67	BBBB
ATOM	5837	CB		B 269	1.532	79.346 80.015	34.900	1.00 37.66 1.00 37.26	BBBB
ATOM	5838	CG		B 269	2.916 2.891	81.537	34.921 35.043	0.01 36.86	BBBB BBBB
ATOM	5839	CD		B 269	2.379	81.997	36.399	0.01 36.88	BBBB
ATOM	5840	CE		B 269	2.379	83.515	36.488	0.01 36.34	BBBB
ATOM	5841	NZ		B 269	1.795	83.974	37.800	0.01 36.33	BBBB
ATOM	5842	C		B 269	0.895	79.383	36.293	1.00 37.17	BBBB
ATOM	5843	Ö		B 269	1.467	78.867	37.246	1.00 37.17	BBBB
ATOM	5844	N		B 270	-0.286	79.992	36.392	1.00 36.07	BBBB
ATOM	5845	CA		в 270	-1.045	80.087	37.642	1.00 36.31	BBBB
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ATOM	5846	СВ	LYS B 2	70	-0.329	81.002	38.643	1.00 35.48	BBBB
ATOM	5847	CG	LYS B 2		-1.110	81.211	39.947	1.00 35.62	BBBB
ATOM	5848	CD	LYS B 2		-0.374	82.110	40.926	1.00 35.25	BBBB
ATOM	5849	CE	LYS B 2	70	-1.156	82.279	42.219	0.01 34.89	BBBB
MOTA	5850	NZ	LYS B 2	70 ·	-0.439	83.146	43.195	0.01 34.79	BBBB
ATOM	5851	С	LYS B 2	70	-2.466	80.623	37.398	1.00 37.45	BBBB
MOTA	5852	.0	LYS B 2	70	-2.639	81.695	36.812	1.00 38.20	BBBB
ATOM	5853	N	CYS B 2		-3.488	79.893	37.833	1.00 37.90	BBBB
ATOM	5854	CA	CYS B 2		-4.847	80.380	37.635	1.00 39.89	BBBB
ATOM	585 <b>5</b>	С	CYS B 2		-5.063	81.679	38.371	1.00 41.63	BBBB BBBB
MOTA	5856	0	CYS B 2		-4.917	81.742	39.586	1.00 41.83	BBBB
MOTA	5857	CB	CYS B 2		-5.887	79.385	38.129	1.00 40.31	BBBB
MOTA	5858	SG	CYS B 2		-6.305	78.120	36.909 37.644	1.00 44.20	BBBB
ATOM	5859	И	PRO B 2		-5.426 -5.715	82.741 82.816	36.199	1.00 45.56	BBBB
ATOM	5860	CD	PRO B 2		-5.715 -5.657	84.034	38.290	1.00 44.59	BBBB
ATOM	5861	CA	PRO B 2		-6.387	84.816	37.210	1.00 44.78	BBBB
ATOM	5862	CB .	PRO B 2 PRO B 2		-5.734	84.307	35.955	1.00 45.11	BBBB
MOTA	5863 5864	CG C	PRO B 2		-6.518	83.800	39.515	1.00 45.31	BBBB
ATOM	5865	0	PRO B 2		-7.390	82.930	39.484	1.00 46.55	BBBB
ATOM ATOM	5866	N	ARG B 2		-6.277	84.543	40.592	1.00 45.55	BBBB
ATOM	5867	CA	ARG B 2		-7.084	84.375	41.798	1.00 46.51	BBBB
ATOM	5868	CB	ARG B 2		-6.679	85.410	42.851	1.00 45.88	BBBB
ATOM	5869	CG	ARG B 2		-5.222	85.323	43.284	0.01 46.49	BBBB
ATOM	5870	CD	ARG B 2		-4.907	83.972	43.911	0.01 46.78	BBBB
ATOM	5871	NE	ARG B 2		-3.507	83.858	44.310	0.01 47.15	BBBB
ATOM	5872	CZ	ARG B 2		-2.926	84.611	45.240	0.01 47.34	BBBB
ATOM	5873	NH1	ARG B 2	273	-3.624	85.542	45.876	0.01 47.43	BBBB
ATOM	5874	NH2	ARG B 2	273	-1.646	84.432	45.535	0.01 47.45	BBBB
ATOM	5875	C	ARG B 2	273	-8.552	84.551	41.387	1.00 47.71	BBBB
ATOM	5876	0	ARG B 2	273	-8.863	84.515	40.194	1.00 50.07	BBBB
ATOM	58 <b>7</b> 7	N	ASN B 2		-9.463	84.734	42.337	1.00 47.78	BBBB BBBB
ATOM	5878	CA		274	-10.878	84.907	41.981	1.00 46.97	BBBB
ATOM	5879	CB	ASN B 2		-11.076	86.163	41.119	1.00 46.27 0.01 46.43	BBBB
MOTA	5880	CG		274	-10.642	87.433	41.829	0.01 46.45	BBBB
ATOM	5881		L ASN B 2		-10.705	88.525	41.264 43.074	0.01 46.29	BBBB
MOTA	5882		ASN B		-10.199	87.296 83.696	41.216	1.00 46.32	BBBB
ATOM	5883	С	ASN B		-11.387	83.368	41.210	1.00 46.13	BBBB
ATOM	5884	0	ASN B		-12.566 -10.488	83.047	40.482	1.00 46.42	BBBB
ATOM	5885	N	TYR B :	275	-10.400	81.857	39.710	1.00 46.56	BBBB
ATOM	5886	CA CB		275 275	-9.956	81.797	38.439	1.00 49.81	BBBB
ATOM	5887 5888	CG		275 275	-10.491	82.621	37.289	1.00 53.93	BBBB
ATOM ATOM	5889		1 TYR B		-9.864	83.808	36.902	1.00 54.16	BBBB
ATOM	5890		TYR B		-10.373	84.575	-35.853-	- 100-56-54	. BBBB
ATOM	5891		2 TYR B		-11.641	82.220	36.596	1.00 54.61	BBBB
MOTA	5892		2 TYR B		-12.159	82.979	35.549	1.00 55.74	BBBB
ATOM	5893	CZ	TYR B		-11.523	84.157	35.181	1.00 57.07	BBBB
MOTA	5894	OH	TYR B	275	-12.032	84.920		1.00 57.61	BBBB
ATOM	5895	С	TYR B	275	-10.557	80.593	40.525	1.00 45.17	BBBB
ATOM	5896	0	TYR B		-9.558	80:477		1.00 45.56	BBBB
MOTA	5897	N	VAL B	276	-11.477	79.646		1.00 42.15	
MOTA	5898	CA			-11.367	78.379		1.00 38.89	
MOTA	5899	CB			-12.683	77.623		1.00 37.34	
ATOM	5900	CG	1 VAL B	276	-12.626	76.391		1.00 37.31	
ATOM	5901		2 VAL B		-13.822	78.537 77.524		1.00 38.51	
ATOM	5902	С	VAL B		-10.285	77.221		1.00 38.90	
MOTA	5903		VAL B		-10.379	77.139		1.00 37.52	
ATOM	5904	N	VAL B		-9.261 -8.193			1.00 37.66	
ATOM	5905				-6.848				
MOTA	5906 5907		1 VAL B		-5.735			1.00 35.74	
ATOM ATOM	5908		2 VAL B		-6.608		_		
ATOM	5909		VAL B		-8.478				BBBB
ATOM	5910		VAL B		-8.657				
ATOM	5911		THR B		-8.514				
ATOM	5912				-8.804				
ATOM	5913				-9.685				
ATOM	5914		1 THR B		-8.891	71.869			
ATOM	5915		2 THR B	278	-10.819				
ATOM	5916		THR B	278	-7.610			1.00 44.04	
ATOM	5917	0	THR B	278	-6.444				
MOTA	5918		ASP B		-7.936				
MOTA	5919				-6.937				
MOTA	5920	CE	B ASP B	279	-7.472	68.147	41.033	1.00 40.9	. 2230

ATOM	5921	CG	ASP B 279	-8.190	68.638	42.271	1.00 50.86	BBBB
ATOM	5922	OD1	ASP B 279	-7.808	69.722	42.766	1.00 52.20	BBBB
ATOM	5923	OD2	ASP B 279	-9.121	67.944	42.748	1.00 51.73	BBBB
MOTA	5924	С	ASP B 279	-6.545	68.814	38.787	1.00 47.70	BBBB
MOTA	5925	0	ASP B 279	-7.375	68.345	38.004	1.00 47.16 1.00 48.05	BBBB
ATOM	5926	N	HIS B 280	-5.256	68.953 68.590	38.503 37.236	1.00 48.05	BBBB BBBB
ATOM ATOM	5927 5928	CA CB	HIS B 280 HIS B 280	-4.628 -5.358	67.427	36.531	1.00 40.50	BBBB
ATOM	5929	CG	HIS B 280	-4.833	66.064	36.895	1.00 47.32	BBBB
MOTA	5930		HIS B 280	-4.008	65.661	37.890	1.00 45.95	BBBB
ATOM	5931	-	HIS B 280	-5.186	64.922	36.207	1.00 45.83	BBBB
ATOM	5932	CE1	HIS B 280	-4.604	63.875	36.764	1.00 45.37	BBBB
ATOM	5933	NE2	HIS B 280	-3.885	64.296	37.788	1.00 45.74	BBBB
MOTA	5934	С	HIS B 280	-4.434	69.785	36.285	1.00 48.76	BBBB
ATOM	5935	0	HIS B 280	-3.797	69.639	35.230	1.00 49.27	BBBB
MOTA	5936	N	GLY B 281	-4.991	70.952 72.127	36.628 35.812	1.00 46.90 1.00 44.61	BBBB BBBB
MOTA MOTA	5937 5938	CA C	GLY B 281 GLY B 281	-4.714 -5.619	73.080	35.050	1.00 42.86	BBBB
ATOM	5939	0	GLY B 281	-5.273	73.407	33.917	1.00 43.86	BBBB
ATOM	5940	N	SER B 282	-6.717	73.568	35.622	1.00 40.64	BBBB
ATOM	5941	CA	SER B 282	-7.567	74.512	34.883	1.00 38.36	BBBB
ATOM	5942	CB	SER B 282	-8.381	73.771	33.816	1.00 36.48	BBBB
ATOM	5943	OG	SER B 282	-9.081	72.673	34.349	1.00 32.03	BBBB
MOTA	5944	С	SER B 282	-8.496	75.380	35.736	1.00 38.17	BBBB
MOTA	5945	0	SER B 282	-9.045	74.921	36.738	1.00 36.75	BBBB
ATOM ATOM	5946 5947	N CA	CYS B 283 CYS B 283	-8.662 -9.514	76.642 77.590	35.328 36.048	1.00 38.67 1.00 38.28	BBBB BBBB
ATOM	5948	C	CYS B 283	-10.949	77.457	35.581	1.00 38.00	BBBB
ATOM	5949	Ö	CYS B 283	-11.211	77.256	34.407	1.00 37.32	BBBB
MOTA	5950	CB	CYS B 283	-9.025	79.016	35.834	1.00 38.60	BBBB
ATOM	5951	SG	CYS B 283	-7.259	79.121	35.423	1.00 40.29	BBBB
ATOM	5952	N	VAL B 284	-11.880	77.584	36.509	1.00 39.44	BBBB
MOTA	5953	CA	VAL B 284	-13.281	77.411	36.190	1.00 41.82 1.00 41.48	BBBB BBBB
MOTA MOTA	5954 5955	CB CG1	VAL B 284 VAL B 284	-13.728 -15.167	76.024 75.755	36.690 36.321	1.00 41.48	BBBB
MOTA	5956		VAL B 284	-12.826	74.963	36.095	1.00 41.49	BBBB
ATOM	5957	C	VAL B 284	-14.155	78.507	36.802	1.00 44.33	BBBB
ATOM	5958	0	VAL B 284	-13.729	79.215	37.702	1.00 44.62	BBBB
MOTA	5959	N	ARG B 285	-15.374	78.652	36.299	1.00 45.46	BBBB
MOTA	5960	CA	ARG B 285	-16.284	79.662	36.812	1.00 46.98	BBBB
MOTA	5961	CB	ARG B 285 ARG B 285	-17.307 -16.736	80.068 80.588	35.750 34.440	1.00 45.24 1.00 42.67	BBBB BBBB
ATOM ATOM	5962 5963	CG	ARG B 285	-16.036	81.925	34.583	1.00 39.39	BBBB
ATOM	5964	NE	ARG B 285	-15.804	82.548	33.284	1.00 37.45	BBBB
ATOM	5965	CZ	ARG B 285		83.640	33:102	1.00-364-9	BBBB
MOTA	5966		ARG B 285	-14.494	84.236	34.133	1.00 34.30	BBBB
MOTA	5967		ARG B 285	-14.911	84.134	31.887	1.00 34.86	BBBB
ATOM	5968	C	ARG B 285	-17.041	79.096 79.832	37.993 38.895	1.00 48.83	BBBB BBBB
ATOM ATOM	5969 5970	0	ARG B 285 ALA B 286	-17.425 -17.270	77.788	37.981	1.00 50.88 1.00 50.82	BBBB
ATOM	5971	N CA	ALA B 286	-18.017	77.148	39.055	1.00 55.65	BBBB
MOTA	5972	CB	ALA B 286	-19.508	77.288	38.786	1.00 55.62	BBBB
ATOM	5973	С	ALA B 286	-17.676	75.677	39.251	1.00 57.86	BBBB
MOTA	5974	0	ALA B 286	-17.529	74.938	38.288	1.00 58.81	BBBB
ATOM	5975	N	CYS B 287	-17.561	75.255	40.505	1.00 60.73	BBBB
MOTA	5976	CA	CYS B 287	-17.264	73.865	40.808	1.00 64.61	BBBB
ATOM	5977	C	CYS B 287	-18.320	72.956	40.191	1.00 66.67 1.00 67.35	BBBB BBBB
ATOM ATOM	5978 5979	O CB	CYS B 287 CYS B 287	-19.154 -17.255	73.400 73.624	39.397 42.319		BBBB
ATOM	5980	SG	CYS B 287	-16.072	74.601	43.282		BBBB
ATOM	5981	N	GLY B 288	-18.279	71.684	40.581		BBBB
ATOM	5982	CA	GLY B 288	-19.241	70.717	40.092	1.00 70.63	BBBB
MOTA	5983	С	GLY B 288	-20.430	70.624	41.030		BBBB
MOTA	5984	0	GLY B 288	-20.279	70.727	42.246		BBBB
ATOM	5985		ALA B 289	-21.613	70.422	40.462		BBBB BBBB
ATOM	5986		ALA B 289 ALA B 289	-22.847 -23.932	70.331 69.669	41.236 40.395		BBBB
ATOM ATOM	5987 5988		ALA B 289	-23.932 -22.724	69.616			BBBB
ATOM	5989		ALA B 289	-23.323	70.036			BBBB
MOTA	5990		ALA B 290	-21.953	68.537			BBBB
ATOM	5991		ALA B 290	-21.802	67.797	43.878		BBBB
MOTA	5992		ALA B 290		66.311			BBBB
MOTA	5993		ALA B 290		68.235			BBBB
MOTA	5994		ALA B 290		67.433 69.508			BBBB BBBB
ATOM	5995	N	SER B 291	-20.544	09.308	43.049	1.00 03.01	2000

ATOM	5996	CA	SER B	291	-19.424	70.072	45.809	1.00 82.99	BBBB
	5997		SER B		-18.160	70.136	44.936	1.00 83.86	BBBB
ATOM			SER B		-17.784	68.862	44.437	1.00 84.16	BBBB
ATOM	5998							1.00 82.21	BBBB
ATOM	5999		SER B		-19.762	71.484	46.305		
ATOM	6000		SER B		-20.895	71.944	46.171	1.00 81.64	BBBB
ATOM	6001	N	TYR B	292	-18.770	72.158	46.883	1.00 81.12	BBBB
ATOM	6002	CA	TYR B	292	-18.933	73.525	47.368	1.00 80.68	BBBB
ATOM	6003	CB	TYR B	292	-19.441	73.539	48.823	1.00 80.62	BBBB
ATOM	6004		TYR B		-18.391	73.331	49.885	1.00 81.05	BBBB
ATOM	6005		TYR B		-17.412	74.288	50.117	1.00 81.11	BBBB
			TYR B		-16.435	74.102	51.080	1.00 81.93	BBBB
ATOM	6006							1.00 81.59	BBBB
ATOM	6007		TYR B		-18.371	72.173	50.653		BBBB
MOTA	6008		TYR B		-17.396	71.975	51.625	1.00 82.84	
MOTA	6009	CZ	TYR B	292	-16.430	72.945	51.830	1.00 82.84	BBBB
ATOM	6010	OH	TYR B	292	-15.448	72.754	52.773	1.00 83.68	BBBB
ATOM	6011	С	TYR B	292	-17.575	74.215	47.238	1.00 80.02	BBBB
ATOM	6012		TYR B		-16.543	73.544	47.222	1.00 79.98	BBBB
ATOM	6013		GLU B		-17.573	75.544	47.146	1.00 79.12	BBBB
					-16.330	76.295	46.978	1.00 78.49	BBBB
ATOM	6014		GLU B					1.00 76.82	BBBB
ATOM	6015		GLU B		-16.593	77.596	46.211		
ATOM	6016	CG	GLU B		-15.494	77.941	45.206	1.00 74.78	BBBB
ATOM	6017	CD	GLU B	293	-15.598	79.348	44.650	1.00 73.38	BBBB
MOTA	6018	OE1	GLU B	293	-15.077	80.285	45.285	1.00 71.45	BBBB
ATOM	6019	OE2	GLU B	293	-16.203	79.518	43.575	1.00 73.24	BBBB
ATOM	6020	С	GLU B	293	-15.617	76.626	48.277	1.00 78.86	BBBB
ATOM	6021	ō	GLU B		-16.236	76.682	49.332	1.00 79.12	BBBB
			MET B		-14.312	76.857	48.186	1.00 79.43	BBBB
ATOM	6022					77.197	49.346	1.00 80.97	BBBB
MOTA	6023		MET B		-13.498				BBBB
MOTA	6024	CB	MET B		-13.468	76.037	50.322	1.00 82.63	
ATOM	6025	CG	MET B	294	-13.045	74.749	49.684	1.00 84.35	BBBB
MOTA	6026	SD	MET B	294	-12.597	73.581	50.935	1.00 86.79	BBBB
ATOM	6027	CE	MET B	3 294	-10.878	74.084	51.208	1.00 86.83	BBBB
ATOM	6028	С	MET B	3 294	-12.083	77.516	48.895	1.00 81.08	BBBB
ATOM	6029	o	MET B		-11.783	77.409	47.709	1.00 81.59	BBBB
ATOM	6030	N	GLU B		-11.205	77.892	49.823	1.00 82.30	BBBB
					-9.840	78.232	49.429	1.00 83.77	BBBB
ATOM	6031	CA	GLU B					1.00 84.47	BBBB
ATOM	6032	CB	GLU E		-9.749	79.735	49.140		BBBB
ATOM	6033	CG	GLU E		-9.509	80.638	50.347	1.00 86.89	
MOTA	6034	CD	GLU E	3 295	-8.031	80.782	50.696	1.00 88.22	BBBB
ATOM	6035	OE1	GLU E	3 295	-7.224	81.050	49.780	1.00 88.93	BBBB
MOTA	6036	OE2	GLU E	3 295	-7.672	80.633	51.885	1.00 89.53	BBBB
ATOM	6037	С	GLU E	3 295	-8.756	77.839	50.423	1.00 83.78	BBBB
ATOM	6038	ō	GLU E		-9.017	77.145	51.401	1.00 83.71	BBBB
MOTA	6039	N	SER E		-7.532	78.283	50.141	1.00 83.75	BBBB
				3 296 ~ -	-6.366	78.019		1008388	BBBB
ATOM	6040	·CA			-6.213	76.527	51.235	1.00 83.95	BBBB
ATOM	6041	CB	SER E					1.00 84.71	BBBB
ATOM	6042	OG	SER E		-5.638	75.900	50.107		
ATOM	6043	С	SER E	3 296	-5.120	78.512	50.258	1.00 83.57	BBBB
MOTA	6044	0	SER E		-5.201	78.950		1.00 84.56	BBBB
ATOM	6045	N	ASP E	3 297	-3.976	78.426	50.931	1.00 83.57	BBBB
ATOM	6046	CA	ASP E	3 297	-2.678	78.836	50.386	1.00 83.32	BBBB
ATOM	6047	CB	ASP E		-2.023	77.673	49.629	1.00 84.47	BBBB
	6048	CG	ASP E		-2.099	76.357	50.382	1.00 84.39	BBBB
ATOM					-1.746	76.320	51.579	1.00 84.16	BBBB
ATOM	6049		ASP E			75.350	49.765	1.00 84.42	BBBB
ATOM	6050		ASP E		-2.504			1.00 84.42	BBBB
ATOM	6051	С	ASP E		-2.732	80.040	49.448		
ATOM	6052	0	ASP E	3 297	-1.826	80.241	48.636	1.00 82.69	BBBB
MOTA	6053	N	GLY E	3 298	-3.789	80.838	49.557	.1.00 82.29	BBBB
ATOM	6054	CA	GLY E	3 298	-3.931	81.996	48.695	1.00 81.24	BBBB
ATOM	6055	С		3 298	-4.794	81.673	47.494	1.00 79.27	BBBB
ATOM	6056	Ö		3 298	-5.369	82.565	46.870	1.00 79.37	BBBB
					-4.880	80.385	47.177	1.00 78.48	BBBB
MOTA	6057	N		B 299		79.912	46.050	1.00 77.23	BBBB
ATOM	6058	CA		B 299	-5.670			1.00 76.62	BBBB
MOTA	6059	CB		B 299	-5.013	78.691	45.428		
ATOM	6060	С		B 299	-7.078	79.574	46.507	1.00 76.65	BBBB
ATOM	6061	0		B 299	-7.415	79.784	47.664	1.00 75.74	BBBB
MOTA	6062	N	ARG I	в 300	-7.889	79.045	45.595	1.00 76.38	BBBB
ATOM	6063	CA		в 300	-9.277	78.68 <b>7</b>	45.885	1.00 76.34	BBBB
MOTA	6064	CB		В 300	-10.188	79.82 <b>7</b>	45.430	1.00 77.24	BBBB
ATOM	6065	CG		В 300	-11.664	79.609	45.658	1.00 78.99	BBBB
ATOM	6066	CD		B 300	-12.394	80.916	45.457	1.00 81.05	BBBB
				B 300	-11.921	81.930	46.393	1.00 83.46	BBBB
ATOM	6067	NE			-12.297	82.006	47.666	1.00 85.02	BBBB
ATOM	6068	CZ		B 300				1.00 85.48	BBBB
ATOM	6069		ARG I		-13.162	81.129	48.154		BBBB
MOTA	6070	NH2	ARG :	B 300	-11.799	82.951	48.456	1.00 85.46	9696

-9.652 77.389 45.167 1.00 75.20 BBBB 6071 C ARG B 300 ATOM -9.587 77.323 43.947 1.00 76.11 BBBB ARG B 300 ATOM 6072 0 1.00 73.40 BBBB -10.049 76.364 45.917 6073 ALA B 301 ATOM N 45.327 1.00 71.60 BBBB ALA B 301 -10.400 75.073 ATOM 6074 CA 1.00 71.77 BBBB -9.391 74.022 45.759 ALA B 301 MOTA 6075 CB 1.00 70.39 -11.806 74.600 BBBB ALA B 301 45.665 ATOM 6076 С -12.548 75.290 46.352 1.00 71.22 BBBB 6077 ALA B 301 ATOM 0 1.00 69.63 BBBB -12.153 73.408 45.186 CYS B 302 6078 N ATOM 1.00 69.81 BBBB -13.475 72.817 45.410 6079 CA CYS B 302 ATOM 1.00 70.92 BBBB -13.463 71.542 46.261 CYS B 302 6080 С ATOM 1.00 70.09 BBBB -12.996 70.495 45.818 MOTA 6081 0 CYS B 302 1.00 68.40 BBBB 44.077 6082 CB CYS B 302 -14.12172.460 ATOM 1.00 65.62 BBBB -14.256 73.797 42.864 CYS B 302 ATOM 6083 SG 1.00 71.91 47.473 BBBB ALA B 303 -13.995 71.615 ATOM 6084 N ALA B 303 1.00 71.37 BBBB -14.04070.438 48.327 MOTA 6085 CA 49.796 1.00 73.18 BBBB ALA B 303 -13.972 70.842 ATOM 6086 CB 48.028 1.00 71.30 **BBBB** ALA B 303 -15.346 69.714 ATOM 6087 С 1.00 71.01 BBBB 47.669 MOTA 6088 0 ALA B 303 -16.337 70.340 68.395 48.160 1.00 71.88 BBBB ALA B 304 -15.342 6089 ATOM N 47.884 1.00 71.97 BBBB 67.606 -16.532 MOTA 6090 CA ALA B 304 48.032 1.00 71.72 BBBB -16.223 66.127 ATOM 6091 CB ALA B 304 1.00 73.18 BBBB -17.662 67.994 48.812 ALA B 304 MOTA 6092 С -17.469 68.109 50.024 1.00 72.92 BBBB 6093 0 ALA B 304 ATOM 48.239 1.00 75.22 BBBB CYS B 305 -18.846 68.195 MOTA 6094 N 49.025 1.00 75.51 BBBB -20.012 68.570 MOTA 6095 CA CYS B 305 CYS B 305 -20.337 67.431 49.998 1.00 77.37 BBBB C MOTA 6096 -20.571 66.292 1.00 77.10 BBBB 49.584 MOTA 6097 0 CYS B 305 BBBB 1.00 74.53 CYS B 305 -21.212 68.846 48.108 6098 CB ATOM -22.580 69.701 1.00 76.81 BBBB 48.956 6099 SG CYS B 305 MOTA 51.291 1.00 78.67 BBBB ALA B 306 -20.340 67.742 6100 N ATOM -20.623 66.747 52.314 1.00 79.35 BBBB 6101 CA ALA B 306 MOTA 53.523 1.00 78.45 BBBB 6102 -19.727 66.981 CB ALA B 306 MOTA -22.087 66.742 52.741 1.00 77.98 BBBB 6103 С ALA B 306 ATOM 1.00 77.53 BBBB -22.514 67.578 53.536 ATOM 6104 0 ALA B 306 52.209 1.00 77.39 -22.845 65.789 BBBB **GLY B 307** ATOM 6105 N 52.552 1.00 77.35 BBBB -24.249 65.674 ATOM 6106 CA GLY B 307 -25.027 52.253 1.00 76.38 BBBB **GLY B 307** 66.936 6107 С MOTA 51.152 1.00 77.04 BBBB -24.936 67.475 GLY B 307 ATOM 6108 0 BBBB 46.511 1.00 70.90 -26.539 69.823 6109 N CYS B 309 ATOM 1.00 70.76 BBBB -25.612 70.413 47.468 MOTA 6110 CA CYS B 309 48.147 1.00 68.92 BBBB -26.262 ATOM 6111 С CYS B 309 71.632 48.453 1.00 68.09 BBBB CYS B 309 -27.456 71.608 MOTA 6112 0 70.801 46.747 1.00 71.77 BBBB -24.310 CB CYS B 309 ATOM 6113 47.841 1.00 72.47 BBBB -22.958 71.343 MOTA 6114 SG CYS B 309 48.376--1.00-67.37 BBBB -25.480 72.687 ALA B-310 MOTA 6115 N 49.023 1.00 64.60 BBBB -25.966 73.908 6116 CA ALA B 310 MOTA 49.235 1.00 66.24 BBBB -24.803 74.864 MOTA 6117 CB ALA B 310 48.236 1.00 62.95 74.608 BBBB ALA B 310 -27.070 MOTA 6118 С BBBB -27.815 75.414 48.778 1.00 62.35 MOTA 6119 0 ALA B 310 BBBB 74.286 46.952 1.00 61.61 -27.152 6120 LYS B 311 MOTA N BBBB 74.845 46.015 1.00 60.10 LYS B 311 -28.124 MOTA 6121 CA BBBB -29.468 75.168 46.672 1.00 59.83 MOTA 6122 CB LYS B 311 BBBB 45.636 1.00 59.97 -30.533 75.564 6123 CG LYS B 311 ATOM 1.00 59.88 BBBB -31.895 75.830 46.250 MOTA 6124 CD LYS B 311 75.633 1.00 58.79 BBBB -33.015 45.233 ATOM 6125 CE LYS B 311 44.050 1.00 59.99 76.529 BBBB -32.913 6126 NZ LYS B 311 MOTA 45.333 1.00 58.80 BBBB -27.615 76.097 MOTA 6127 LYS B 311 BBBB -28.041 77.207 45.640 1.00 58.77 MOTA 6128 0 LYS B 311 BBBB 75.907 44.406 1.00 57.83 -26.690 MOTA 6129 N VAL B 312 43.659 1.00 56.11 BBBB -26.149 77.020 MOTA 6130 CA VAL B 312 1.00 55.53 BBBB -24.741 76.696 43.146 MOTA 6131 CB VAL B 312 BBBB 77.949 42.600 1.00 55.22 CG1 VAL B 312 -24.079 MOTA 6132 -23.919 76.105 BBBB 44.276 1.00 55.51 CG2 VAL B 312 ATOM 6133 BBBB 1.00 54.69 -27.119 77.184 42.499 ATOM 6134 С VAL B 312 BBBB 6135 -27.775 76.221 42.111 1.00 54.83 VAL B 312 ATOM 0 BBBB -27.232 78.396 41.964 1.00 54.15 ATOM 6136 N CYS B 313 BBBB -28.146 78.653 40.855 1.00 52.77 MOTA 6137 CA CYS B 313 BBBB 79.328 39.667 1.00 51.87 -27.471 MOTA 6138 С CYS B 313 BBBB -26,643 80.227 39.834 1.00 50.44 MOTA 6139 0 CYS B 313 1.00 52.69 BEBB 79.496 41.339 CYS B 313 -29.333 MOTA 6140 CB 1.00 54.18 BBBB -30.388 78.618 42.543 MOTA 6141 SG CYS B 313 1.00 50.56 BBBB ASN B 314 -27.824 78.873 38.466 ATOM 6142 N 1.00 49.32 BBBB ASN B 314 -27.269 79.429 37.243 ATOM 6143 CA 36.034 1.00 49.72 **BBBB** ASN B 314 -27.718 78.629 6144 CB ATOM 1.00 50.43 BBBB -27.279 77.196 36.102 ATOM 6145 CG ASN B 314

ATOM	6146	OD1 AS	N B	314	-26.137	76.903	36.449	1.00	50.40	BBBB
MOTA	6147	ND2 AS			-28.180	76.288	35.762		51.27	BBBB
ATOM	6148		N B		-27.728	80.860	37.090	1.00	48.78	BBBB
ATOM ATOM	6149		N B		-28.892	81.182	37.335	-	48.82	BBBB
ATOM	6150 6151		YB		-26.804 -27.126	81.717 83.119	36.678 36.522		48.02	BBBB
ATOM	6152		YB		-27.120	83.559	35.088		46.99	BBBB BBBB
ATOM	6153		ΥB		-26.322	83.613	34.320		47.13	BBBB
ATOM	6154		EΒ		-28.534	83.884	34.747		43.85	BBBB
MOTA	6155	CA IL	EB	316	-28.922	84.347	33.424		42.70	BBBB
ATOM	6156		EΒ		-29.824	85.597	33.556	1.00	40.78	BBBB
ATOM	6157	CG2 IL			-30.268	86.079	32.186		41.04	BBBB
ATOM ATOM	6158 6159	CG1 IL			-31.023	85.254	34.432		38.39	BBBB
ATOM	6160		EB		-32.224 -27.796	86.092 84.641	34.184 32.411		35.93 43.18	BBBB
ATOM	6161		EB		-26.832	85.357	32.696		41.87	BBBB BBBB
ATOM	6162		YB		-27.938	84.063	31.223		43.70	BBBB
ATOM	6163	CA GL	Y B	317	-26.967	84.276	30.170		45.14	BBBB
ATOM	6164		ΥB		-25.994	83.148	29.911	1.00	46.42	BBBB
ATOM	6165		ΥB		-26.336	82.117	29.329		44.14	BBBB
ATOM ATOM	6166		EB		-24.757	83.368	30.336		48.77	BBBB
ATOM	6167 6168		e b e b		-23.691 -22.311	82.392 83.013	30.154		50.45 50.26	BBBB
MOTA	6169	CG2 IL			-21.203	81.988	30.529 30.326		50.26	BBBB BBBB
ATOM	6170	CG1 IL			-22.050	84.257	29.677		50.47	BBBB
ATOM	6171	CD1 IL			-20.768	84.987	30.029		50.58	BBBB
MOTA	6172		EВ		-23.948	81.126	30.984		50.91	BBBB
ATOM	6173		EВ		-23.976	80.021	30.443	1.00	50.70	BBBB
MOTA	6174		YB		-24.146	81.292	32.290		51.88	BBBB
ATOM ATOM	6175 6176		YB		-24.400	80.150	33.150		52.86	BBBB
ATOM	6177		Y B Y B		-25.374 -25.124	79.213 78.014	32.469 32.320		53.73	BBBB
ATOM	6178		UB		-26.491	79.780	32.036		55.27 53.09	BBBB BBBB
ATOM	6179		UΒ		-27.532	79.028	31.356		51.59	BBBB
ATOM	6180	CB GL	UB	320	-28.264	78.104	32.341		51.34	BBBB
ATOM	6181		UВ		-28.981	76.937	31.681	1.00	50.32	BBBB
ATOM	6182		U B		-29.492	77.290	30.297		50.13	BBBB
ATOM	6183	OE1 GL			-28.657	77.418	29.372		48.84	BBBB
ATOM ATOM	6184 6185		UB UB		-30.723 -28.483	77.458	30.144		49.67	BBBB
MOTA	6186		UB		-28.010	80.089 81.082	30.800 30.237		51.14 51.31	BBBB BBBB
ATOM	6187		EB.		-29.799	79.896	30.237		48.52	BBBB
ATOM	6188	CA PH	EB.	321	-30.823	80.827	30.489		44.38	BBBB
ATOM	6189		ЕВ.		-31.238	81.807	31.596		41.69	BBBB
ATOM	6190	CG TPHI		321	-31.579	81.157	32.908-			BBBB
ATOM ATOM	6191 6192	CD1 PHI			-30.585	80.668	33.740		39.57	BBBB
ATOM	6193	CE1 PH			-32.901 -30.908	81.049 80.077	33.324		39.59	BBBB
ATOM	6194		E B .		-33.235	30.460	34.978 34.559		38.89 37.45	BBBB BBBB
ATOM	6195		2 B		-32.240	79.976	35.383		37.04	BEBB
MOTA	6196		€ В :		-30.261	81.617	29.300		43.44	BBBB
ATOM	6197		E B :		-30.490	82.815	29.174		43.29	BBBB
ATOM	6198		5 B :		-29.513	80.920	28.447		42.88	BBBB
ATOM ATOM	6199 6200		5 B :		-28.852	81.481	27.267		42.37	BBBB
ATOM	6201		5 B :		-29.027 -28.407	80.521 80.999	26.085 24.781		43.15 42.81	BBBB BBBB
ATOM	6202		3 B :		-26.896	81.120	24.889		42.93	BBBB
ATOM	6203		3 B 3		-26.284	81.553	23.566		42.94	BBBB
MOTA	6204	NZ LYS	3 B 3	322	-26.596	80.596	22.467	0.01	42.95	BBBB
ATOM	6205		3 B 3		-29.303	82.878	26.865		41.02	BBBB
ATOM	6206		5 B 3		-28.609	83.864	27.104		40.06	BBBB
ATOM ATOM	6207 6208		? B :		-30.469	82.949	26.239		40.50	BBBB
ATOM	6209		9 B 3		-31.024 -31.415	84.216 84.128	25.807 24.330		39.63	BBBB
ATOM	6210		P B 3		-30.241	83.775	23.438		39.31 39.26	BBBB BBBB
ATOM	6211	OD1 ASE			-29.248	84.533	23.433		39.14	BBBB
ATOM	6212	OD2 ASE			-30.311	82.740	22.742		39.17	BBBB
ATOM	6213		Э В 3		-32.239	84.560	26.677		38.87	BBBB
ATOM	6214		? B 3		-33.313	84.000	26.499		40.11	BBBB
ATOM	6215		R B 3		-32.031	85.470	27.629		36.41	BBBB
ATOM ATOM	6216 6217		R B 3		-33.049	85.945	28.568		33.39	BBBB
ATOM	6217		R B 3		-33.239 -33.797	84.958 83.736	29.720		31.65 27.86	BBBB
ATOM	6219		R B 3		-32.516	87.263	29.294 29.129		33.82	BBBB BBBB
ATOM	6220		₹ B 3		-31.644	87.268	29.129		34.22	BBBB
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ATOM 6274 CG2 ILE B 332 -38.106 85.413 40.573 1.00 53.92 BBBB ATOM 6275 CG1 ILE B 332 -40.038 84.607 39.169 1.00 54.95 BBBB ATOM 6276 CD1 ILE B 332 -41.135 83.592 38.983 1.00 55.74 BBBB ATOM 6277 C ILE B 332 -38.763 81.715 40.027 1.00 57.18 BBBB ATOM 6278 O ILE B 332 -38.596 81.185 41.128 1.00 57.94 BBBB ATOM 6279 N LYS B 333 -39.493 81.159 39.064 1.00 57.71 BBBB ATOM 6280 CA LYS B 333 -40.147 79.870 39.243 1.00 57.58 BBBB ATOM 6281 CB LYS B 333 -41.103 79.588 38.076 1.00 57.74 BBBB ATOM 6282 CG LYS B 333 -41.103 79.588 38.076 1.00 57.74 BBBB ATOM 6283 CD LYS B 333 -42.754 78.060 36.953 0.01 57.55 BBBB ATOM 6284 CE LYS B 333 -42.754 78.060 36.953 0.01 57.55 BBBB ATOM 6285 NZ LYS B 333 -44.3472 76.723 37.014 0.01 57.56 BBBB ATOM 6286 C LYS B 333 -39.040 78.827 39.275 1.00 57.62 BBBB ATOM 6288 N HIS B 334 -37.808 79.301 39.430 1.00 56.75 BBBB ATOM 6288 N HIS B 334 -37.808 79.301 39.430 1.00 56.75 BBBB ATOM 6280 CA HIS B 334 -36.652 78.425 39.482 1.00 56.26 BBBB ATOM 6290 CB HIS B 334 -36.652 78.425 39.482 1.00 56.94 BBBB ATOM 6291 CG HIS B 334 -36.354 77.843 38.087 1.00 59.29 BBBB ATOM 6292 CD2 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBB ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBB ATOM 6294 CE1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBB ATOM 6294 CE1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBB ATOM 6294 CE1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB										
ATOM 6222 CA LEU B 325 -32.584 89.691 29.051 1.00 31.40 BBBB BBR ATOM 6223 CB LEU B 325 -33.169 90.698 26.805 1.00 24.69 BBBB ATOM 6225 CD1 LEU B 325 -33.169 90.698 26.805 1.00 24.69 BBBB ATOM 6225 CD1 LEU B 325 -33.169 90.698 26.805 1.00 24.69 BBBB ATOM 6226 CD2 LEU B 325 -33.169 90.698 26.805 1.00 24.69 BBBB ATOM 6227 C LEU B 325 -31.696 90.841 26.507 1.00 24.02 BBBB ATOM 6228 O LEU B 325 -31.696 90.841 26.507 1.00 24.02 BBBB ATOM 6228 O LEU B 325 -31.698 90.761 31.010 1.00 32.78 BBBB ATOM 6228 O LEU B 325 -31.683 90.761 31.010 1.00 32.78 BBBB ATOM 6230 CA SER B 326 -33.491 89.614 32.766 1.00 34.34 BBBB ATOM 6231 CB SER B 326 -33.491 89.614 32.766 1.00 34.34 BBBB ATOM 6231 CB SER B 326 -34.685 91.059 31.325 1.00 33.45 BBBB ATOM 6231 CB SER B 326 -34.685 91.059 31.3050 1.00 33.50 BBBB ATOM 6231 CB SER B 326 -34.685 91.059 31.3050 1.00 33.50 BBBB ATOM 6231 CB SER B 326 -34.681 87.516 32.807 1.00 37.25 BBBB ATOM 6234 O SER B 326 -34.681 87.516 32.807 1.00 37.25 BBBB ATOM 6234 CB SER B 326 -34.681 87.516 32.807 1.00 37.25 BBBB ATOM 6234 CB SER B 326 -34.681 87.516 32.807 1.00 37.75 BBBB ATOM 6231 CB SER B 327 -35.601 87.515 33.506 1.00 36.61 BBBB ATOM 6231 CB SER B 327 -35.601 87.515 33.506 1.00 36.61 BBBB ATOM 6235 CB LEU B 327 -35.601 87.515 33.506 1.00 36.61 BBBB ATOM 6230 CG LEU B 327 -35.715 86.612 37.729 1.00 35.65 BBBB ATOM 6230 CG LEU B 327 -35.715 86.612 37.729 1.00 35.76 BBBB ATOM 6230 CG LEU B 327 -35.715 86.612 37.729 1.00 35.76 BBBB ATOM 6230 CG LEU B 327 -35.715 86.612 37.729 1.00 35.76 BBBB ATOM 6240 CD LEU B 327 -35.715 86.612 37.729 1.00 35.76 BBBB ATOM 6240 CD LEU B 327 -35.715 86.612 37.729 1.00 35.76 BBBB ATOM 6240 CD LEU B 327 -35.715 86.612 37.729 1.00 35.76 BBBB ATOM 6240 CD LEU B 327 -35.715 86.612 37.729 1.00 35.75 BBBB ATOM 6240 CD LEU B 327 -35.715 86.612 37.729 1.00 35.75 BBBB ATOM 6240 CD LEU B 327 -35.715 86.612 37.729 1.00 35.75 BBBB ATOM 6240 CD LEU B 327 -35.715 86.612 37.729 1.00 35.75 BBBB ATOM 6240 CD LEU B 327 -35.715 86.610 37.729 1.00 35.75 BBBB ATOM 6240 CD LEU B 327 -35.71	T MOV	C001 1	k.T	TEN F	225	22 046	00 375	28 635	1 00 32 45	BBBB
ATOM 6223 CB LEU B 325 -33.396 90.756 28.315 1.00 27.98 BBBB ATOM 6226 CG LEU BB 325 -33.396 90.756 28.315 1.00 27.98 BBBB ATOM 6226 CD LEU B 325 -33.929 91.799 26.131 1.00 24.02 BBBB ATOM 6226 CD LEU B 325 -31.699 0.0684 126.507 1.00 24.02 BBBB ATOM 6226 CD LEU B 325 -31.699 0.0684 126.507 1.00 24.02 BBBB ATOM 6226 CD LEU B 325 -31.699 0.0684 126.507 1.00 23.278 BBBB ATOM 6226 CD LEU B 325 -32.539 89.994 30.556 1.00 32.78 BBBB ATOM 6220 CA SER B 326 -33.431 89.379 31.255 1.00 33.41 BBBB ATOM 6220 CA SER B 326 -33.431 89.379 31.255 1.00 33.41 BBBB ATOM 6223 CA SER B 326 -34.213 90.948 33.026 1.00 33.53 BBBB ATOM 6232 CG SER B 326 -34.213 90.948 33.026 1.00 33.53 BBBB ATOM 6233 C SER B 326 -34.236 88.468 33.464 1.00 36.35 BBBB ATOM 6235 C SER B 326 -34.236 88.468 33.464 1.00 36.35 BBBB ATOM 6235 C SER B 326 -34.236 88.468 33.464 1.00 36.35 BBBB ATOM 6235 C ATLE B 327 -35.001 87.515 35.506 1.00 35.67 BBBB ATOM 6235 C ATLE B 327 -35.001 87.515 35.506 1.00 35.67 BBBB ATOM 6235 C ATLE B 327 -34.652 87.370 36.567 1.00 35.67 BBBB ATOM 6235 C ATLE B 327 -35.001 87.515 35.506 1.00 35.67 BBBB ATOM 6236 CC ILL B B 327 -35.500 87.370 36.567 1.00 35.65 BBBB ATOM 6236 CC ILL B B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.567 1.00 35.66 BBBB ATOM 6240 CD ILL EB B 327 -35.800 87.370 36.660 36.669 1.00 46.06 BBBB ATOM 6245 CB ASNB 8288 -35.350 87.350 37.00 35.00 47.00 35.00 BBBB ATOM 6245 CB ASNB 8288 -35.350 87.350 1.00 35.00 BBBB ATOM 6245 CB ASNB 8288 -35.350 87.350 1.00 35.00 BBBB ATOM 6250 CD ASNB 8288 -35.350 87.350 1.00 35.00 48.650 BBBB ATOM 6250 CD ASNB 8289 39.370 87.550 1.00 45.95 BBBB ATOM 6250 CD										
ATOM   6224   CG   LEU B 325   -33.169   90.698   26.805   1.00 24.69   BBBB   ATOM   6225   CD1   LEU B 325   -33.829   91.799   26.131   1.00 24.32   BBBB   ATOM   6227   C   LEU B 325   -31.696   90.841   26.507   1.00 24.02   BBBB   ATOM   6227   C   LEU B 325   -31.696   90.841   26.507   1.00 24.02   BBBB   ATOM   6228   O   LEU B 325   -31.698   90.761   31.010   1.00 32.78   BBBB   ATOM   6228   O   LEU B 325   -31.698   90.761   31.010   1.00 32.78   BBBB   ATOM   6230   CA SER B 326   -33.491   89.614   32.766   1.00 34.34   BBBB   ATOM   6231   CB SER B 326   -34.491   89.614   32.766   1.00 34.34   BBBB   ATOM   6231   CB SER B 326   -34.681   89.614   32.766   1.00 34.35   BBBB   ATOM   6231   CB SER B 326   -34.681   89.1099   34.300   1.00 33.50   BBBB   ATOM   6234   CB SER B 326   -34.681   89.1099   34.300   1.00 33.50   BBBB   ATOM   6234   CB SER B 326   -34.681   87.516   32.607   1.00 37.75   BBBB   ATOM   6235   NI LEB B 327   -34.342   88.535   34.799   1.00 35.67   BBBB   ATOM   6235   NI LEB B 327   -35.601   87.515   35.506   1.00 36.61   BBBB   ATOM   6236   CB LEB B 327   -35.601   87.515   35.506   1.00 36.61   BBBB   ATOM   6236   CB LEB B 327   -35.715   66.612   37.729   1.00 35.65   BBBB   ATOM   6236   CB LEB B 327   -35.339   66.539   37.053   1.00 35.65   BBBB   ATOM   6236   CB LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6236   CB LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 327   -35.715   66.612   37.729   1.00 35.75   BBBB   ATOM   6240   CD LEB B 320   -3	ATOM									
ATOM 6225 CDL LEU B 325 -33.929 91.799 26.131 1.00 24.02 BBBB ATOM 6226 CDL LEU B 325 -31.699 90.841 26.507 1.00 24.02 BBBB ATOM 6226 CDL LEU B 325 -31.699 90.841 26.507 1.00 24.02 BBBB ATOM 6228 0 LEU B 325 -31.693 90.761 31.010 1.00 24.05 BBBB ATOM 6229 N SER B 326 -33.431 89.379 31.255 1.00 33.41 BBBB ATOM 6220 CA SER B 326 -33.491 89.379 31.255 1.00 33.41 BBBB ATOM 6223 CA SER B 326 -34.213 90.948 33.026 1.00 33.53 BBBB ATOM 6223 CS SER B 326 -34.213 90.948 33.026 1.00 33.53 BBBB ATOM 6223 CS SER B 326 -34.213 90.948 33.026 1.00 33.55 BBBB ATOM 6223 CS SER B 326 -34.236 881.468 33.464 1.00 36.35 BBBB ATOM 6223 CS SER B 326 -34.236 881.468 33.464 1.00 36.35 BBBB ATOM 6223 CS SER B 326 -34.236 881.468 33.464 1.00 36.35 BBBB ATOM 6235 N ILE B 327 -35.001 87.515 35.506 1.00 35.67 BBBB ATOM 6235 CA ILE B 327 -35.001 87.515 35.506 1.00 35.67 BBBB ATOM 6235 CA ILE B 327 -35.001 87.515 35.506 1.00 35.67 BBBB ATOM 6236 CG ILE B 327 -35.108 86.612 37.729 1.00 35.55 BBBB ATOM 6236 CG ILE B 327 -35.186 86.612 37.729 1.00 35.55 BBBB ATOM 6236 CG ILE B 327 -35.801 87.515 35.506 1.00 35.76 BBBB ATOM 6236 CG ILE B 327 -35.801 87.515 35.506 1.00 35.76 BBBB ATOM 6236 CG ILE B 327 -35.802 80.017 37.00 35.55 BBBB ATOM 6236 CG ILE B 327 -35.802 80.017 37.00 35.55 BBBB ATOM 6240 CD IL ILE B 327 -36.502 80.017 37.00 35.55 BBBB ATOM 6240 CD IL ILE B 327 -35.802 80.017 37.00 35.55 BBBB ATOM 6240 CD IL ILE B 327 -35.802 80.017 37.00 35.69 BBBB ATOM 6240 CD IL ILE B 327 -35.802 80.017 37.00 35.69 BBBB ATOM 6240 CD IL ILE B 327 -35.802 80.017 37.00 35.69 BBBB ATOM 6240 CD IL ILE B 327 -35.802 80.017 37.00 35.69 BBBB ATOM 6240 CD IL ILE B 327 -36.802 80.017 37.00 35.69 BBBB ATOM 6240 CD IL ILE B 327 -36.802 80.017 37.00 35.69 BBBB ATOM 6250 CD ASN B 328 -37.389 87.225 34.775 1.00 35.69 BBBB ATOM 6260 CD ASN B 328 -37.389 87.225 34.775 1.00 35.69 BBBB ATOM 6260 CD ASN B 328 -37.389 87.225 34.775 1.00 35.69 BBBB ATOM 6260 CD ASN B 328 -37.389 87.225 34.675 1.00 35.69 BBBB ATOM 6260 CD ASN B 328 -39.377 86.600 33.400 1.00 46.00 BBBB ATOM	ATOM	6223	CB	LEU E	3 325	-33.396	90.756	28.315		
ATOM 6225 CDI LEU B 325 -33.929 31.759 26.131 1.00 24.02 BBBB ATOM 6226 CDI LEU B 325 -31.695 90.841 26.507 1.00 24.02 BBBB ATOM 6228 0 LEU B 325 -31.683 90.761 31.010 1.00 24.05 BBBB ATOM 6229 N SER B 326 -33.431 89.379 31.355 1.00 33.41 BBBB ATOM 6230 CA SER B 326 -33.431 89.379 31.355 1.00 33.41 BBBB ATOM 6230 CA SER B 326 -34.213 90.948 33.026 1.00 33.53 BBBB ATOM 6232 OS SER B 326 -34.213 90.948 33.026 1.00 33.53 BBBB ATOM 6232 OS SER B 326 -34.213 90.948 33.026 1.00 33.55 BBBB ATOM 6232 OS SER B 326 -34.236 88.468 31.00 34.44 1.00 36.35 BBBB ATOM 6234 C SER B 326 -34.236 88.468 31.00 37.00 37.55 BBBB ATOM 6235 N ILE B 327 -35.061 87.515 35.006 1.00 35.57 BBBB ATOM 6235 N ILE B 327 -34.652 87.370 36.567 1.00 35.67 BBBB ATOM 6235 C AILE B 327 -35.061 87.515 35.006 1.00 35.67 BBBB ATOM 6236 CC ILE B 327 -35.061 87.515 35.006 1.00 35.67 BBBB ATOM 6236 CC ILE B 327 -35.106 87.515 65.612 37.729 1.00 35.67 BBBB ATOM 6236 CC ILE B 327 -35.108 85.008 37.003 1.00 36.06 BBBB ATOM 6236 CC ILE B 327 -35.108 66.593 37.003 1.00 36.06 BBBB ATOM 6236 CC ILE B 327 -35.808 81.009 35.362 1.00 37.79 BBBB ATOM 6236 CC ILE B 327 -35.808 81.009 35.362 1.00 37.79 BBBB ATOM 6236 CD ILE B 327 -35.808 81.009 35.362 1.00 37.99 BBBB ATOM 6236 CD ILE B 327 -35.808 81.009 35.362 1.00 37.09 BBBB ATOM 6246 C ILE B 327 -35.808 81.009 35.362 1.00 37.99 BBBB ATOM 6246 C ILE B 327 -35.808 81.009 35.362 1.00 37.99 BBBB ATOM 6246 C ILE B 327 -36.809 38.4075 1.00 37.00 85.06 BBBB ATOM 6246 C ILE B 327 -36.809 38.4075 1.00 37.00 85.06 BBBB ATOM 6246 C ILE B 327 -36.809 38.4075 1.00 37.00 85.06 BBBB ATOM 6250 CD ANN 88 328 -39.155 67.600 35.464 1.00 43.98 BBBB ATOM 6250 CD ANN 88 328 -39.155 67.600 35.466 1.00 43.09 BBBB ATOM 6250 CD ANN 88 328 -39.155 67.600 35.466 1.00 43.99 BBBB ATOM 6250 CD ANN 88 328 -39.155 67.600 35.466 1.00 45.99 BBBB ATOM 6250 CD ANN 88 328 -39.328 85.822 36.600 1.00 46.10 48.99 BBBB ATOM 6250 CD ANN 88 328 -39.328 85.822 36.600 1.00 46.10 48.99 BBBB ATOM 6250 CD ANN 88 331 -30.600 82.500 35.466 1.00 45.99 BBBB ATOM 6250	АТОМ	6224	CG	LEU I	3 325	-33.169	90.698	26.805	1.00 24.69	BBBB
NATION   6226   CIPLED   8   325   -31.696   90.841   26.507   1.00   24.02   BBBB   SATON   6228   C   LEU   8   325   -32.539   89.994   30.556   1.00   34.74   BBBB   SATON   6228   C   LEU   8   325   -32.539   89.994   30.556   1.00   34.74   BBBB   SATON   6220   N   SER   8   326   -33.491   93.973   31.325   1.00   33.43   BBBB   ATON   6231   CB   SER   8   326   -34.491   93.614   32.766   1.00   34.34   BBBB   ATON   6231   CB   SER   8   326   -34.491   93.614   33.026   1.00   33.50   BBBB   ATON   6232   C   SER   8   326   -34.685   91.059   34.560   1.00   33.50   BBBB   ATON   6234   C   SER   8   326   -34.685   91.059   34.560   1.00   33.60   BBBB   ATON   6235   N   LEB   327   -35.601   87.515   35.506   1.00   35.61   BBBB   ATON   6235   C   LEB   327   -35.501   87.515   35.506   1.00   35.61   BBBB   ATON   6235   C   C   LEB   327   -35.501   87.515   35.506   1.00   35.61   BBBB   ATON   6236   C   LEB   327   -35.501   86.612   37.729   1.00   35.55   BBBB   ATON   6236   C   LEB   327   -35.515   86.612   37.729   1.00   35.55   BBBB   ATON   6234   C   LEB   327   -35.515   86.612   37.729   1.00   35.55   BBBB   ATON   6234   C   LEB   327   -35.515   86.612   37.729   1.00   35.66   BBBB   ATON   6234   N   ASHB   328   -37.389   87.255   34.676   1.00   36.61   BBBB   ATON   6234   N   ASHB   328   -33.789   87.255   34.676   1.00   35.64   BBBB   ATON   6244   C   LEB   327   -35.678   89.099   35.562   1.00   36.66   BBBB   ATON   6244   C   ASHB   828   -33.789   87.255   34.676   1.00   43.06   BBBB   ATON   6246   C   ASHB   828   -33.915   87.664   33.246   1.00   43.06   BBBB   ATON   6246   C   ASHB   828   -33.915   87.664   33.246   1.00   43.06   BBBB   ATON   6246   C   ASHB   828   -33.938   85.825   33.675   1.00   41.40   BBBB   ATON   6246   C   ASHB   828   -33.938   85.825   34.675   1.00   41.40   BBBB   ATON   6265   C   ASHB   828   -33.938   85.825   34.676   1.00   41.54   BBBB   ATON   6265   C   ASHB   829   -41.971   84.601   35.560   35.456   1.00								26.131	1.00 24.32	BBBB
APON									-	BBBB
ATOM 6228 0 SER B 326 -33.491 89.514 32.766 1.00 32.35 BBBB AROM 6230 CA SER B 326 -33.491 89.514 32.766 1.00 33.40 BBBB AROM 6231 CB SER B 326 -34.698 91.059 34.360 1.00 33.53 BBBB AROM 6232 CG SER B 326 -34.698 91.059 34.360 1.00 33.53 BBBB AROM 6232 CG SER B 326 -34.698 91.059 34.360 1.00 33.53 BBBB AROM 6232 CG SER B 326 -34.698 91.059 34.360 1.00 33.53 BBBB AROM 6231 CG SER B 326 -34.698 91.059 34.360 1.00 33.55 BBBB AROM 6232 CG SER B 326 -34.698 19.059 34.360 1.00 37.25 BBBB AROM 6232 CG SER B 326 -34.698 18.516 32.807 1.00 37.25 BBBB AROM 6232 N ILB B 327 -35.081 87.516 32.807 1.00 37.25 BBBB AROM 6232 N ILB B 327 -35.091 87.515 35.506 1.00 36.61 BBBB AROM 6232 CG ILB B 327 -35.715 86.612 37.729 1.00 35.67 BBBB AROM 6232 CG ILB B 327 -35.715 86.612 37.729 1.00 35.58 BBBB AROM 6239 CGI ILB B 327 -35.715 86.612 37.729 1.00 35.58 BBBB AROM 6234 C ILB B 327 -35.715 86.612 37.729 1.00 35.58 BBBB AROM 6240 CD ILE B 327 -35.715 86.612 37.729 1.00 35.58 BBBB AROM 6240 CD ILE B 327 -36.780 89.099 35.962 1.00 36.06 BBBB AROM 6242 C ILB B 327 -36.780 89.099 35.962 1.00 37.99 BBBB AROM 6244 C A ABN B 328 -37.398 87.225 34.753 1.00 36.06 BBBB AROM 6244 C A ABN B 328 -38.513 87.604 33.256 1.00 41.08 BBBB AROM 6245 CB ABN B 328 -38.513 87.604 33.256 1.00 41.08 BBBB AROM 6246 CG ABN B 328 -38.513 87.604 33.256 1.00 41.48 BBBB AROM 6246 CG ABN B 328 -38.915 87.604 33.256 1.00 44.08 BBBB AROM 6246 CG ABN B 328 -39.833 85.822 36.274 1.00 44.08 BBBB AROM 6246 CG ABN B 328 -39.833 85.822 36.274 1.00 44.08 BBBB AROM 6250 O ABN B 328 -39.833 85.822 36.274 1.00 44.08 BBBB AROM 6250 O ABN B 328 -39.833 85.822 36.274 1.00 44.08 BBBB AROM 6250 O ABN B 328 -39.833 85.822 36.274 1.00 44.08 BBBB AROM 6250 O ABN B 328 -39.833 85.822 36.274 1.00 44.08 BBBB AROM 6250 O ABN B 333 -39.877 86.60 35.560 1.00 44.08 BBBB AROM 6250 C A ABN B 333 -39.837 85.628 36.274 1.00 46.44 BBBB AROM 6250 C A ABN B 333 -39.837 85.680 37.450 1.00 44.08 BBBB AROM 6250 C A ABN B 333 -39.838 85.822 36.274 1.00 46.94 BBBB AROM 6250 C A ABN B 333 -39.838 85.822										
ATOM 6229 N SER B 326 -33.491 89.779 31.225 1.00 33.41 BBBB ATOM 6230 CA SER B 326 -34.213 99.948 33.026 1.00 34.343 BBBB ATOM 6231 CB SER B 326 -34.213 99.948 33.026 1.00 33.53 BBBB ATOM 6232 CG SER B 326 -34.233 99.948 33.026 1.00 33.50 BBBB ATOM 6232 CG SER B 326 -34.236 88.468 33.464 1.00 36.35 BBBB ATOM 6233 C SER B 326 -34.236 88.468 33.464 1.00 36.35 BBBB ATOM 6233 C SER B 326 -34.236 88.468 33.464 1.00 36.35 BBBB ATOM 6235 N ILE B 327 -34.542 88.535 34.790 1.00 35.67 BBBB ATOM 6235 N ILE B 327 -34.542 88.535 34.790 1.00 35.67 BBBB ATOM 6235 N ILE B 327 -34.652 87.370 36.967 1.00 35.67 BBBB ATOM 6237 CB ILE B 327 -34.652 87.370 36.967 1.00 35.84 BBBB ATOM 6239 CG1 ILE B 327 -33.539 86.593 37.053 1.00 36.06 BBBB ATOM 6239 CG1 ILE B 327 -33.539 86.593 37.053 1.00 36.06 BBBB ATOM 6240 CD1 ILE B 327 -35.502 88.017 35.469 1.00 36.06 BBBB ATOM 6242 O ILE B 327 -36.502 88.017 35.469 1.00 37.99 BBBB ATOM 6242 O ILE B 327 -36.502 88.017 35.469 1.00 37.99 BBBB ATOM 6244 CA ARN B 322 -37.389 87.225 34.876 1.00 37.99 BBBB ATOM 6244 CA ARN B 322 -37.389 87.225 34.876 1.00 40.08 BBBB ATOM 6244 CA ARN B 322 -37.389 87.225 34.876 1.00 40.08 BBBB ATOM 6244 CA ARN B 322 -37.389 87.225 34.876 1.00 41.54 BBBB ATOM 6245 CB ARN B 322 -39.3155 87.640 33.246 1.00 41.54 BBBB ATOM 6245 CB ARN B 322 -39.315 87.640 33.246 1.00 41.54 BBBB ATOM 6245 CB ARN B 322 -39.327 85.268 32.874 1.00 41.54 BBBB ATOM 6245 CB ARN B 322 -39.327 85.268 32.874 1.00 41.54 BBBB ATOM 6255 CB ARN B 322 -39.327 85.268 32.874 1.00 41.54 BBBB ATOM 6255 CB ARN B 322 -39.327 85.268 32.874 1.00 41.54 BBBB ATOM 6255 CB ARN B 322 -39.327 85.268 32.874 1.00 41.54 BBBB ATOM 6255 CB ARN B 322 -39.327 85.268 32.874 1.00 41.54 BBBB ATOM 6255 CB ARN B 322 -39.327 85.268 32.874 1.00 41.54 BBBB ATOM 6265 CB ARN B 323 -39.328 85.268 32.874 1.00 41.54 BBBB ATOM 6265 CB ARN B 323 -39.328 85.223 8.274 1.00 41.54 BBBB ATOM 6265 CB ARN B 323 -39.328 85.223 8.274 1.00 41.54 BBBB ATOM 6265 CB ARN B 331 -36.618 83.379 81.31 1.00 41.55 BBBB ATOM 6265 CB ARN B 331 -36.618 83.379 8	ATOM	6227	C	LEO 1		-32.539				
ATOM 6230 CA SER B 326 -33.491 89.614 32.766 1.00 34.34 BBBB ATOM 6231 CB SER B 326 -34.618 91.059 34.360 1.00 33.50 BBBB ATOM 6232 CB SER B 326 -34.618 91.059 34.360 1.00 33.50 BBBB ATOM 6233 CB SER B 326 -34.618 91.059 34.360 1.00 37.25 BBBB ATOM 6234 CB SER B 326 -34.618 87.516 32.807 1.00 37.25 BBBB ATOM 6235 N LIE B 327 -34.621 87.516 32.807 1.00 37.25 BBBB ATOM 6235 N LIE B 327 -33.081 87.515 35.506 1.00 36.61 BBBB ATOM 6236 CB LIE B 327 -33.081 87.515 35.506 1.00 36.61 BBBB ATOM 6237 CB LIE B 327 -33.518 86.612 37.729 1.00 35.54 BBBB ATOM 6238 CB LIE B 327 -33.518 86.612 37.729 1.00 35.54 BBBB ATOM 6238 CB LIE B 327 -36.520 86.239 38.475 1.00 35.54 BBBB ATOM 6230 CB LIE B 327 -36.502 88.017 35.481 BBBB ATOM 6240 CD LIE B 327 -36.502 88.017 35.481 LIE B 327 -37.389 87.225 34.876 1.00 35.14 BBBB ATOM 6244 CA ARN B 328 -37.389 87.225 34.876 1.00 36.06 BBBB ATOM 6244 CA ARN B 328 -37.389 87.225 34.876 1.00 41.54 BBBB ATOM 6244 CA ARN B 328 -35.031 86.791 87.584 41.733 1.00 41.54 BBBB ATOM 6245 CD ARN B 328 -33.155 87.640 33.246 1.00 41.43 BBBB ATOM 6249 C ARN B 328 -33.515 87.640 33.246 1.00 41.43 BBBB ATOM 6249 C ARN B 328 -33.513 87.640 33.246 1.00 41.43 BBBB ATOM 6249 C ARN B 328 -33.513 86.660 35.456 1.00 43.98 BBBB ATOM 6250 O ARN B 328 -33.973 86.660 35.456 1.00 43.98 BBBB ATOM 6250 O ARN B 328 -33.973 86.660 35.456 1.00 43.98 BBBB ATOM 6250 O ARN B 328 -33.973 86.660 35.456 1.00 44.08 BBBB ATOM 6250 O ARN B 328 -33.773 86.660 35.456 1.00 43.98 BBBB ATOM 6250 O ARN B 328 -33.773 86.660 35.456 1.00 44.08 BBBB ATOM 6250 O ARN B 328 -33.773 86.660 35.456 1.00 44.08 BBBB ATOM 6265 C ARN B 328 -33.773 86.660 35.456 1.00 44.08 BBBB ATOM 6265 C ARN B 328 -33.773 86.660 35.456 1.00 44.08 BBBB ATOM 6265 C ARN B 328 -33.773 86.660 35.456 1.00 44.08 BBBB ATOM 6265 C ARN B 328 -33.773 86.660 35.456 1.00 44.08 BBBB ATOM 6265 C	ATOM	6228	0	LEU 1	B 325	-31.683	90.761	31.010	1.00 32.35	
ATOM   6230   CA   SER B   326   -33.491   89.614   32.766   1.00   34.34   BBBB   ATOM   6232   CG   SER B   326   -34.618   91.059   34.360   1.00   33.60   BBBB   ATOM   6232   CG   SER B   326   -34.628   91.059   34.360   1.00   33.60   BBBB   ATOM   6234   CG   SER B   326   -34.628   81.516   32.807   1.00   37.25   BBBB   ATOM   6235   N   LIE B   327   -35.081   87.515   35.506   1.00   36.61   BBBB   ATOM   6236   CA   LIE B   327   -35.081   87.515   35.506   1.00   36.61   BBBB   ATOM   6236   CA   LIE B   327   -35.081   87.515   35.506   1.00   36.61   BBBB   ATOM   6238   CC2   LIE B   327   -35.715   86.612   37.729   1.00   35.55   BBBB   ATOM   6239   CG1   LIE B   327   -35.715   86.612   37.729   1.00   35.55   BBBB   ATOM   6230   CG1   LIE B   327   -35.715   86.612   37.729   1.00   35.55   BBBB   ATOM   6240   CD1   LIE B   327   -35.715   86.612   37.729   1.00   35.55   BBBB   ATOM   6241   CT   LIE B   327   -36.502   86.017   35.462   BBBB   ATOM   6242   O   LIE B   327   -36.502   86.017   35.462   BBBB   ATOM   6242   O   LIE B   327   -36.502   86.017   35.462   BBBB   ATOM   6242   O   LIE B   327   -36.502   86.017   35.462   LIE B   327   -36.502   86.017   35.952   LIE B   328   -36.502   86	ATOM	6229	N	SER I	B 326	-33.431	89.379	31.325	1.00 33.41	BBBB
ATOM 6231 CB SER B 326									1.00 34.34	BBBB
APTION   C232   OS   SER   B   326   -34.685   91.059   34.360   1.00   33.60   BBBB   APTION   C234   O   SER   B   326   -34.236   BB.48   B   32.807   1.00   37.25   BBBB   APTION   C234   O   SER   B   326   -34.681   87.516   32.807   1.00   37.25   BBBB   APTION   C235   O   ATTION   C235   O   ATTION   C236   O   ATTION   C237   O   ATTION   C238   O   ATTION   C240   O   ATTION   C240   O   ATTION   C240   O   ATTION   C240   O   ATTION   O										
APPON   6233   C   SER B 326   -34,236   88,468   33,464   1,00 36.35   BBBB   RIPON   6235   N   ILE B 327   -34,691   87,516   32,607   1,00 37.25   BBBB   RIPON   6236   N   ILE B 327   -34,691   87,515   35,506   1,00 36.61   BBBB   RIPON   6237   CB   ILE B 327   -34,691   87,515   35,506   1,00 36.61   BBBB   RIPON   6237   CB   ILE B 327   -34,691   87,515   35,506   1,00 35.61   BBBB   RIPON   6237   CB   ILE B 327   -35,715   86,612   37,729   1,00 35.55   BBBB   RIPON   6238   CG   ILE B 327   -35,715   86,612   37,729   1,00 35.55   BBBB   RIPON   6240   CD   ILE B 327   -36,502   88,017   35,469   1,00 37,99   BBBB   RIPON   6240   CD   ILE B 327   -36,502   88,017   35,469   1,00 37,99   BBBB   RIPON   6242   C   ILE B 327   -36,502   88,017   35,469   1,00 37,99   BBBB   RIPON   6244   CA   ASN B 328   -35,7389   37,589   35,962   1,00 38.06   BBBB   RIPON   6244   CA   ASN B 328   -35,7389   37,560   32,566   1,00 40.08   BBBB   RIPON   6246   CG   ASN B 328   -36,835   86,340   32,566   1,00 41.43   BBBB   RIPON   6246   CG   ASN B 328   -36,835   86,340   32,566   1,00 41.43   BBBB   RIPON   6246   CG   ASN B 328   -39,327   85,268   32,674   1,00 41.43   BBBB   RIPON   6240   CA   ASN B 328   -39,327   86,660   35,661   10,00 43,76   BBBB   RIPON   6250   O   ASN B 328   -39,327   86,660   35,661   10,00 43,76   BBBB   RIPON   6250   O   ASN B 328   -39,327   86,660   35,661   10,00 43,76   BBBB   RIPON   6250   O   ASN B 328   -39,328   36,827   31,221   1,00 41,43   BBBB   RIPON   6250   O   ASN B 328   -39,328   36,827   31,221   1,00 41,43   BBBB   ASN B 328   -39,327   86,660   35,661   10,00 43,76   BBBB   RIPON   6250   O   ASN B 328   -39,328   36,827   31,221   1,00 46,44   BBBB   ASN B 328   -39,328   36,827   31,221   1,00 46,48   BBBB   RIPON   6250   O   ASN B 338   -39,328   36,837   31,221   1,00 46,48   BBBB   ASN B 328   -39,328   36,837   31,221   1,00 46,48   BBBB   ASN B 328   -39,328   36,839   36,830   1,00 46,18   BBBB   ASN B 328   -39,328   36,839   36,839   36,839										
APON   6234   O   SER   8   326   -34   681   87   516   32   807   1.00   37.25   BBBB   RICH   6235   N   LIE   B   327   -35   341   28   88.55   34.79   1.00   35.67   BBBB   APON   6236   CA   LIE   B   327   -35   34.652   87.370   35.69   567   1.00   35.61   BBBB   APON   6237   CB   LIE   B   327   -35   34.652   87.370   35.69   71.00   35.55   BBBB   APON   6238   CG2   LIE   B   327   -35   515   58   66.612   37.729   1.00   35.55   BBBB   APON   6239   CG1   LIE   B   327   -35   515   58   66.612   37.729   1.00   35.55   BBBB   APON   6240   CD1   LIE   B   327   -35   502   86.593   37.053   1.00   35.14   BBBB   APON   6240   CD1   LIE   B   327   -36   502   89.093   35.962   1.00   35.14   BBBB   APON   6241   C   LIE   B   327   -36   502   89.093   35.962   1.00   35.14   BBBB   APON   6243   N   ASN   B   328   -37   389   87   225   34   876   1.00   41.54   BBBB   APON   6244   CA   ASN   B   328   -37   389   87   225   34   876   1.00   41.54   BBBB   APON   6246   CG   ASN   B   328   -39   327   85   266   32   32   66   1.00   41.43   BBBB   APON   6247   CD1   ASN   B   328   -39   327   85   266   32   32   66   1.00   41.03   BBBB   APON   6247   CD1   ASN   B   328   -39   373   86   630   32   266   1.00   41.03   BBBB   APON   6249   C   ASN   B   328   -39   373   86   630   32   267   41.00   43.99   BBBB   APON   6249   C   ASN   B   328   -39   373   85   625   32   267   41.00   43.99   BBBB   APON   6250   C   ASN   B   328   -39   373   85   625   32   274   1.00   43.99   BBBB   APON   6250   C   ASN   B   328   -39   373   86   600   35   456   1.00   43.99   BBBB   APON   6250   C   ASN   B   328   -39   373   86   600   35   456   1.00   43.99   BBBB   APON   6250   C   ASN   B   328   -39   328   66   455   31.60   1.00   43.99   BBBB   APON   6250   C   ASN   B   330   -40   546   608   35   600   40   40   40   40   40   40   4	MOTA	6232	OG	SER	B 326	-34.685				
ATOM 6235 N ILE B 327 -34.342 88.535 34.790 1.00 35.67 BBBB ATOM 6236 CA ILE B 327 -34.652 87.370 36.967 1.00 35.61 BBBB ATOM 6237 CB ILE B 327 -35.081 87.515 35.506 1.00 36.61 BBBB ATOM 6238 CGI ILE B 327 -35.018 67.370 36.967 1.00 35.84 BBBB ATOM 6239 CGI ILE B 327 -35.715 86.612 37.729 1.00 35.55 BBBB ATOM 6239 CGI ILE B 327 -35.715 86.612 37.729 1.00 35.55 BBBB ATOM 6240 CDI ILE B 327 -32.893 86.593 37.053 1.00 36.06 BBBB ATOM 6240 CDI ILE B 327 -36.502 88.017 56.469 1.00 37.99 BBBB ATOM 6241 C ILE B 327 -36.502 88.017 56.469 1.00 37.99 BBBB ATOM 6242 O ILE B 327 -36.502 88.017 56.469 1.00 37.99 BBBB ATOM 6244 CA ASN B 328 -37.389 87.225 34.876 1.00 40.08 BBBB ATOM 6244 CA ASN B 328 -39.155 87.640 33.246 1.00 41.54 BBBB ATOM 6245 CB ASN B 328 -39.155 87.640 33.246 1.00 41.43 BBBB ATOM 6246 CG ASN B 328 -39.155 87.640 33.246 1.00 41.43 BBBB ATOM 6246 CG ASN B 328 -39.327 86.528 32.674 1.00 46.44 BBBB ATOM 6246 CG ASN B 328 -39.327 86.528 32.674 1.00 43.98 BBBB ATOM 6246 CQ ASN B 328 -39.327 86.660 35.660 10.00 44.08 BBBB ATOM 6240 C ASN B 328 -39.773 86.660 35.661 0.00 43.76 BBBB ATOM 6250 O ASN B 328 -39.773 86.660 35.661 0.00 43.76 BBBB ATOM 6251 N ALA B 329 -42.176 86.089 35.680 1.00 46.10 BBBB ATOM 6252 CA ALA B 329 -42.176 86.089 35.680 1.00 46.10 BBBB ATOM 6252 CA ALA B 329 -42.176 86.089 35.680 1.00 46.10 BBBB ATOM 6256 CA AND 83.99 -42.176 86.089 35.680 1.00 46.10 BBBB ATOM 6256 CA THR B 330 -40.584 82.805 34.851 1.00 46.38 BBBB ATOM 6256 CA THR B 330 -40.584 82.805 34.851 1.00 46.78 BBBB ATOM 6256 N THR B 330 -40.584 82.805 34.851 1.00 46.78 BBBB ATOM 6257 CA THR B 330 -40.584 82.805 34.851 1.00 47.25 BBBB ATOM 6266 N THR B 330 -39.474 38.2451 35.787 1.00 49.13 BBBB ATOM 6267 CA THR B 330 -39.474 38.2451 35.787 1.00 49.13 BBBB ATOM 6267 CA THR B 330 -39.474 38.2451 35.787 1.00 49.13 BBBB ATOM 6267 CA THR B 330 -39.474 38.2451 35.787 1.00 49.13 BBBB ATOM 6267 CD ILE B 332 -39.838 39.493 39.00 50.75 BBBB ATOM 6267 CD ILE B 332 -39.838 39.933 39.00 50.75 BBBB ATOM 6267 CD ILE B 332 -39.838 39.933 39.00	ATOM	6233	С	SER	B 326	-34.236	88.468	33.464	1.00 36.35	BBBB
ADDITION   C235   N   TILE   B   327	АТОМ	6234	0	SER	B 326	-34.681	87.516	32.807	1.00 37.25	BBBB
ARTOM 6236 CA TILE B 327 -35.081 87.515 35.506 1.00 36.61 BBBB ARTOM 6238 CG2 IIE B 327 -33.652 87.370 36.671 1.00 35.84 BBBB ARTOM 6238 CG2 IIE B 327 -35.715 86.612 37.729 1.00 35.55 BBBB ARTOM 6240 CD1 IIE B 327 -35.715 86.612 37.729 1.00 35.55 BBBB ARTOM 6240 CD1 IIE B 327 -36.502 88.017 35.465 1.00 35.54 BBBB ARTOM 6240 CD1 IIE B 327 -36.502 88.017 35.469 1.00 37.99 BBBB ARTOM 6241 C IIE B 327 -36.502 88.017 35.465 1.00 37.99 BBBB ARTOM 6242 O IIE B 327 -36.502 88.017 35.465 1.00 37.99 BBBB ARTOM 6243 N ASN B 328 -37.389 87.225 34.876 1.00 40.08 BBBB ARTOM 6244 CA ASN B 328 -37.389 87.225 34.876 1.00 40.44 BBBB ARTOM 6246 CG ASN B 328 -39.327 85.640 33.246 1.00 44.08 BBBB ARTOM 6246 CG ASN B 328 -39.327 85.263 32.874 1.00 44.08 BBBB ARTOM 6246 NDZ ASN B 328 -39.327 85.263 32.874 1.00 46.44 BBBB ARTOM 6246 NDZ ASN B 328 -39.327 85.263 32.874 1.00 46.44 BBBB ARTOM 6245 CD ASN B 328 -39.373 86.660 35.456 1.00 43.99 BBBB ARTOM 6246 NDZ ASN B 328 -39.373 86.660 35.456 1.00 43.99 BBBB ARTOM 6265 O ASN B 328 -39.773 86.660 35.456 1.00 43.99 BBBB ARTOM 6250 O ASN B 328 -39.583 85.822 36.741 1.00 43.99 BBBB ARTOM 6250 CD ASN B 328 -39.583 85.822 36.741 1.00 43.99 BBBB ARTOM 6250 CD ASN B 328 -39.583 85.822 36.741 1.00 43.99 BBBB ARTOM 6250 CD ASN B 328 -39.583 85.822 36.741 1.00 43.99 BBBB ARTOM 6250 CD ASN B 328 -39.583 85.822 36.741 1.00 43.99 BBBB ARTOM 6250 CD ASN B 328 -39.583 85.822 36.741 1.00 43.99 BBBB ARTOM 6250 CD ASN B 328 -39.583 85.822 36.741 1.00 43.99 BBBB ARTOM 6250 CD ASN B 328 -39.583 85.822 36.741 1.00 43.95 BBBB ARTOM 6250 CD ASN B 330 -41.103 86.837 35.122 1.00 45.84 BBBB ARTOM 6250 CD ASN B 330 -41.103 86.837 35.122 1.00 45.84 BBBB ARTOM 6250 CD ASN B 331 -35.844 84.209 34.956 1.00 43.95 BBBB ARTOM 6250 CD ASN B 331 -35.844 84.209 34.956 1.00 43.95 BBBB ARTOM 6250 CD ASN B 331 -35.844 84.209 34.953 1.00 64.98 BBBB ARTOM 6250 CD ASN B 331 -35.844 84.209 34.953 1.00 64.98 BBBB ARTOM 6260 CD ASN B 331 -35.844 84.209 34.953 1.00 65.36 BBBB ARTOM 6260 CD ASN B 331 -35.844 84.209 34.953 1.00 65.36 B								34.790	1.00 35.67	BBBB
APON   6237   CB   TLE   B   327   -34,652   87,370   36,967   1.00   35,84   BBBB   APON   6239   CG   TLE   B   327   -35,715   86,612   37,729   1.00   35,55   BBBB   APON   6240   CD   TLE   B   327   -32,833   86,523   37,053   1.00   36,06   BBBB   APON   6240   CD   TLE   B   327   -36,502   88,017   35,469   1.00   37,99   BBBB   APON   6242   C   TLE   B   327   -36,502   88,017   35,469   1.00   37,99   BBBB   APON   6242   O   TLE   B   327   -36,502   88,017   35,469   1.00   37,99   BBBB   APON   6243   N   ASN   B   328   -39,389   87,225   34,765   1.00   40,08   BBBB   APON   6244   CA   ASN   B   328   -39,155   87,640   33,246   1.00   41,43   BBBB   APON   6246   CG   ASN   B   328   -39,155   87,640   33,246   1.00   41,43   BBBB   APON   6246   CG   ASN   B   328   -39,155   SF,269   32,674   1.00   41,43   BBBB   APON   6246   CG   ASN   B   328   -39,327   85,269   32,674   1.00   41,43   BBBB   APON   6249   CC   ASN   B   328   -39,327   86,660   35,465   1.00   41,43   BBBB   APON   6249   CC   ASN   B   328   -39,327   86,660   35,465   1.00   41,43   BBBB   APON   6250   O   ASN   B   328   -39,373   86,660   35,465   1.00   41,43   BBBB   APON   6250   O   ASN   B   328   -39,373   86,660   35,465   1.00   43,76   BBBB   APON   6250   O   ASN   B   328   -39,373   85,822   36,274   1.00   43,95   BBBB   APON   6250   O   ASN   B   328   -39,373   85,822   36,274   1.00   43,95   BBBB   APON   6250   O   ASN   B   328   -39,373   85,822   36,274   1.00   43,95   BBBB   APON   6250   O   ASN   B   328   -39,373   85,822   36,274   1.00   43,95   BBBB   APON   6255   O   ALA   B   329   -42,176   86,083   35,680   1.00   46,18   BBBB   APON   6255   O   ALA   B   329   -42,176   86,083   35,680   1.00   46,18   BBBB   APON   6256   O   ALA   B   329   -42,176   86,083   35,680   1.00   46,18   BBBB   APON   6256   O   ALA   B   329   -42,176   86,083   35,690   1.00   46,98   BBBB   APON   6256   O   ALA   B   329   -42,176   86,455   30,450   1.00   46,98   BBBB   APON   6256   O										
ATOM 6238 CG2 TLE B 327 -35.715 86.612 37.729 1.00 35.55 BBBB ATOM 6230 CG1 TLE B 327 -35.715 86.593 37.053 1.00 36.06 BBBB ATOM 6240 CD1 TLE B 327 -36.502 88.017 35.461 1.00 35.14 BBBB ATOM 6240 CD1 TLE B 327 -36.502 88.017 35.462 1.00 37.99 BBBB ATOM 6240 CD1 TLE B 327 -36.780 89.099 35.962 1.00 38.06 BBBB ATOM 6243 N ASN B 328 -37.389 87.225 34.876 1.00 41.54 BBBB ATOM 6244 CA ASN B 328 -37.389 87.225 34.876 1.00 41.54 BBBB ATOM 6245 CB ASN B 328 -39.815 87.584 34.733 1.00 41.54 BBBB ATOM 6246 CG ASN B 328 -39.125 87.584 34.733 1.00 41.54 BBBB ATOM 6246 CG ASN B 328 -39.127 85.268 32.874 1.00 44.08 BBBB ATOM 6246 CG ASN B 328 -39.127 85.268 32.874 1.00 44.08 BBBB ATOM 6240 CD ASN B 328 -39.327 85.268 32.874 1.00 44.08 BBBB ATOM 6240 ND ASN B 328 -39.713 86.640 35.456 1.00 43.79 BBBB ATOM 6240 CD ASN B 328 -39.713 86.640 35.456 1.00 43.79 BBBB ATOM 6240 CD ASN B 328 -39.713 86.640 35.456 1.00 43.79 BBBB ATOM 6251 N ALA B 329 -41.033 86.837 35.122 1.00 45.84 BBBB ATOM 6251 N ALA B 329 -42.176 86.088 35.620 1.00 46.10 BBBB ATOM 6255 CD ALA B 329 -42.176 86.088 35.620 1.00 46.10 BBBB ATOM 6255 CD ALA B 329 -42.910 88.813 1.00 46.10 BBBB ATOM 6256 N THR B 330 -40.874 84.200 33.937 1.00 46.89 BBBB ATOM 6256 N THR B 330 -40.874 84.200 33.937 1.00 46.89 BBBB ATOM 6256 O THR B 330 -40.874 84.200 33.937 1.00 45.89 BBBB ATOM 6250 CG2 THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG2 THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.20 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.60 BBBB ATOM 6260 CG THR B 330 -40.874 84.200 33.937 1.00 45.60 BBBB ATOM 6260 CG THR B 330 -30.876 88.20 89.99 39.99 39.99 30.00 55.74 BBBB ATOM 6260 CG THR B 330 -30.8										
ATOM 6239 CGI TLE B 327	ATOM									
ATOM 6240 CD1 ILE B 327	ATOM	6238	CG2	ILE	B 327	-35.715	86.612	37.729	1.00 35.55	
ATOM 6240 CD1 ILE B 327 -36.502 88.017 35.469 1.00 37.99 BBBB ATOM 6241 C ILE B 327 -36.502 88.017 35.469 1.00 37.99 BBBB ATOM 6243 N ASN B 328 -37.389 87.225 34.875 1.00 41.54 BBBB ATOM 6245 CB ASN B 328 -37.389 87.225 34.875 1.00 41.54 BBBB ATOM 6245 CB ASN B 328 -39.155 87.540 33.246 1.00 41.54 BBBB ATOM 6246 CG ASN B 328 -38.375 87.584 34.733 1.00 41.54 BBBB ATOM 6246 CG ASN B 328 -38.875 86.340 32.506 1.00 44.08 BBBB ATOM 6247 OD1 ASN B 328 -38.875 86.340 32.506 1.00 44.08 BBBB ATOM 6248 NDZ ASN B 328 -39.927 85.263 32.874 1.00 45.44 BBBB ATOM 6249 C ASN B 328 -39.937 85.263 32.874 1.00 45.49 BBBB ATOM 6250 O ASN B 328 -39.937 86.645 35.456 1.00 43.95 BBBB ATOM 6250 O ASN B 328 -39.937 86.600 35.456 1.00 43.95 BBBB ATOM 6250 C ASN B 328 -39.383 85.822 36.274 1.00 45.94 BBBB ATOM 6251 N ALA B 329 -42.176 86.088 35.622 1.00 45.94 BBBB ATOM 6255 CB ALA B 329 -42.176 86.088 35.560 1.00 45.94 BBBB ATOM 6255 CB ALA B 329 -42.176 86.088 35.560 1.00 46.10 BBBB ATOM 6255 CB ALA B 329 -41.971 84.601 35.560 1.00 46.10 BBBB ATOM 6255 CB ALA B 329 -42.816 86.088 35.560 1.00 46.98 BBBB ATOM 6255 CB ALA B 329 -42.816 86.088 35.560 1.00 46.98 BBBB ATOM 6255 CB ALA B 329 -42.816 86.088 35.560 1.00 46.98 BBBB ATOM 6255 CB ALA B 329 -42.816 86.088 35.560 1.00 46.89 BBBB ATOM 6255 CB ALA B 329 -42.816 86.088 35.560 1.00 46.89 BBBB ATOM 6255 CB ALA B 329 -42.816 83.817 36.030 1.00 46.89 BBBB ATOM 6255 CB ALA B 330 -40.584 82.805 34.851 1.00 47.25 BBBB ATOM 6256 CC THR B 330 -40.584 82.805 34.851 1.00 45.68 BBBB ATOM 6256 CG ALA B 330 -39.443 82.651 33.314 1.00 45.65 BBBB ATOM 6266 CG ALA B 330 -39.443 82.451 35.787 1.00 45.36 BBBB ATOM 6266 CG ALA BLA BASA 331 -37.018 82.564 36.101 1.00 46.69 BBBB ATOM 6266 CG ALA B 331 -37.018 82.364 36.101 1.00 46.69 BBBB ATOM 6266 CG ALA BLA BASA 331 -37.018 82.364 36.100 1.00 46.89 BBBB ATOM 6266 CG ALA BLA BASA 331 -37.018 82.364 36.100 1.00 45.62 BBBB ATOM 6266 CG ALA BLA BASA 331 -37.018 82.364 36.100 55.74 BBBB ATOM 6266 CG ALA BLA BASA 331 -37.018 82.644 36.100 55.78 BBBB ATOM 6266 CG		6239	CG1	ILE	B 327	-33.339	86.593	37.053	1.00 36.06	BBBB
ATCM 6241 C ILE B 327							86.259	38.475	1.00 35.14	BBBB
ATOM 6242 0 IILE B 327										
ATOM 6243 N ASN B 328 -37.389 87.225 34.876 1.00 40.08 BBBB ATOM 6245 CB ASN B 328 -38.791 87.584 34.733 1.00 41.54 BBBB ATOM 6245 CB ASN B 328 -39.155 87.640 33.246 1.00 41.43 BBBB ATOM 6246 CG ASN B 328 -39.327 85.268 32.874 1.00 46.40 BBBB ATOM 6247 ODI ASN B 328 -38.935 86.340 32.506 1.00 44.08 BBBB ATOM 6248 NDZ ASN B 328 -39.327 85.268 32.874 1.00 43.98 BBBB ATOM 6249 C ASN B 328 -39.373 86.660 35.456 1.00 43.79 BBBB ATOM 6250 O ASN B 328 -39.383 85.822 36.274 1.00 43.98 BBBB ATOM 6251 N ALA B 329 -41.053 86.857 35.122 1.00 45.84 BBBB ATOM 6251 N ALA B 329 -42.176 86.088 35.680 1.00 46.10 BBBB ATOM 6252 CA ALA B 329 -41.053 86.857 35.122 1.00 45.84 BBBB ATOM 6255 O ALA B 329 -42.176 86.088 35.680 1.00 46.10 BBBB ATOM 6255 CA ALA B 329 -42.801 83.817 36.030 1.00 46.98 BBBB ATOM 6255 CA ALA B 329 -42.801 83.817 36.030 1.00 46.98 BBBB ATOM 6255 CA ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6255 CA ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6265 N ALA B 329 -40.874 84.208 34.956 1.00 46.98 BBBB ATOM 6265 N ALA B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6267 N ALA B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6267 N ALA B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6260 CGZ HTR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6260 CGZ HTR B 330 -30.676 82.028 86.914 1.00 52.60 BBBB ATOM 6260 CGZ HTR B 330 -30.676 82.028 86.914 1.00 52.60 BBBB ATOM 6260 CGZ HTR B 330 -30.876 82.028 83.94 1.00 50.75 BBBB ATOM 6260 CGZ HTR B 330 -30.876 82.028 83.94 1.00 50.75 BBBB ATOM 6260 CG ANN B 331 -36.813 83.949 1.00 55.46 BBBB ATOM 6260 CG ANN B 331 -36.813 83.949 1.00 55.46 BBB										
ATOM 6244 CB ASN B 328	ATOM	6242	0							
ATOM 6245 CB ASN B 328 -39.155 87.640 33.246 1.00 41.43 BBBB ATOM 6246 CG ASN B 328 -39.155 87.640 33.246 1.00 41.43 BBBB ATOM 6247 ODI ASN B 328 -39.378 85.268 32.874 1.00 43.98 BBBB ATOM 6248 NDZ ASN B 328 -39.373 85.663 31.460 1.00 43.98 BBBB ATOM 6249 C ASN B 328 -39.373 86.663 35.456 1.00 43.76 BBBB ATOM 6250 O ASN B 328 -39.383 85.822 36.274 1.00 43.95 BBBB ATOM 6251 N ALA B 329 -41.053 86.6837 35.122 1.00 45.45 BATOM 6252 CA ALA B 329 -41.053 86.6837 35.122 1.00 45.84 BATOM 6252 CA ALA B 329 -42.176 86.088 35.680 1.00 46.10 BBBB ATOM 6252 CA ALA B 329 -42.176 86.088 35.680 1.00 46.10 BBBB ATOM 6255 O ALA B 329 -42.176 86.088 35.680 1.00 46.10 BBBB ATOM 6255 CB ALA B 329 -42.801 83.817 36.030 1.00 48.20 BBBB ATOM 6255 CA THR B 330 -40.874 84.208 34.965 1.00 46.38 BBBB ATOM 6255 O ALA B 339 -40.874 84.208 34.965 1.00 46.38 BATOM 6256 O ALA B 339 -40.874 84.208 34.963 1.00 46.98 BBBB ATOM 6257 CA THR B 330 -40.874 84.208 33.997 1.00 45.36 BATOM 6258 CB THR B 330 -40.210 82.805 34.963 1.00 46.98 BBBB ATOM 6259 OGI THR B 330 -40.210 82.805 34.963 1.00 43.34 BBBB ATOM 6260 CG2 THR B 330 -40.210 82.805 34.963 1.00 43.34 BBBB ATOM 6261 C THR B 330 -39.676 82.028 36.914 1.00 43.65 BBBB ATOM 6266 CG ASN B 331 -38.215 82.641 35.328 1.00 50.75 BBBB ATOM 6266 CG ASN B 331 -38.215 82.641 35.328 1.00 50.75 BBBB ATOM 6267 CD ASN B 331 -38.215 82.641 35.328 1.00 50.75 BBBB ATOM 6267 CD ASN B 331 -37.018 82.364 36.110 1.00 52.60 BBBB ATOM 6267 CD ASN B 331 -37.018 82.364 36.110 1.00 52.60 BBBB ATOM 6267 CD ASN B 331 -37.018 82.364 36.110 1.00 52.60 BBBB ATOM 6267 CD ASN B 331 -37.218 83.934 33.666 1.00 51.88 BBBB ATOM 6267 CD ASN B 331 -37.218 83.934 33.686 1.00 50.75 BBBB ATOM 6267 CD ASN B 331 -37.223 82.194 37.615 1.00 53.93 BBBB ATOM 6267 CD ASN B 331 -37.223 82.194 37.615 1.00 53.93 BBBB ATOM 6268 ND2 ASN B 331 -37.223 82.194 37.615 1.00 55.93 BBBB ATOM 6267 CD ASN B 331 -37.223 82.194 37.615 1.00 55.95 BBBB BBB ATOM 6277 C A ILE B 332 -38.898 84.224 40.211 1.00 55.60 BBBB ATOM 6278 C D ILE B 332 -38.998 84.224 40.21	ATOM	6243	N	ASN	B 328	-37.389	87.225			
ATOM 6245 CB ASN B 328 -39.155 87.640 33.246 1.00 41.43 BBBB ATOM 6246 CG ASN B 328 -39.327 85.268 32.506 1.00 44.08 BBBB ATOM 6247 ODI ASN B 328 -39.327 85.268 32.506 1.00 44.08 BBBB ATOM 6248 NDZ ASN B 328 -39.327 85.268 32.874 1.00 43.76 BBBB ATOM 6249 C ASN B 328 -39.327 86.660 35.456 1.00 43.76 BBBB ATOM 6250 O ASN B 328 -39.383 85.822 36.274 1.00 43.75 BBBB ATOM 6251 N ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6251 N ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6252 CA ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6252 CA ALA B 329 -42.176 86.088 35.680 1.00 46.10 BBBB ATOM 6255 CA ALA B 329 -41.951 84.601 35.580 1.00 46.98 BBBB ATOM 6255 CA ALA B 329 -42.801 83.817 36.030 1.00 46.98 BBBB ATOM 6255 CA ALA B 329 -42.801 83.817 36.030 1.00 46.98 BBBB ATOM 6255 CA THR B 330 -40.210 82.805 34.956 1.00 46.98 BBBB ATOM 6256 CA THR B 330 -40.210 82.805 34.963 1.00 46.98 BBBB ATOM 6256 CA THR B 330 -40.210 82.805 34.963 1.00 46.98 BBBB ATOM 6256 CA THR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6260 CG2 THR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6260 CG2 THR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6260 CG2 THR B 330 -39.676 82.028 36.914 1.00 49.13 BBBB ATOM 6260 CG2 THR B 330 -39.676 82.028 36.914 1.00 49.13 BBBB ATOM 6260 CG2 THR B 330 -39.676 82.028 36.914 1.00 49.13 BBBB ATOM 6266 CG ASN B 331 -36.215 82.641 35.328 1.00 50.75 BBBB ATOM 6266 CG ASN B 331 -36.215 82.641 35.328 1.00 50.75 BBBB ATOM 6266 CG ASN B 331 -36.215 82.641 35.328 1.00 50.75 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.646 1.00 52.60 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.686 1.00 50.75 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.686 1.00 55.06 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.686 1.00 55.06 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.686 1.00 55.06 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.606 1.00 55.06 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.900 1.00 55.06 BBBB ATOM 6267 CA ASN B 331 -36.813 83.934 33.900 1.00 55.06 BBBB ATOM 6267 CA ASN B 331 -36.813	ATOM	6244	CA	ASN	B 328	-38.791	87.584	34.733	1.00 41.54	BBBB
ATOM 6246 CG ASN B 328 -38.835 86.340 32.506 1.00 44.08 BBBB ATOM 6247 ODI ASN B 328 -39.327 85.268 32.874 1.00 46.49 BBBB ATOM 6248 NDZ ASN B 328 -39.327 85.268 32.874 1.00 43.98 BBBB ATOM 6249 C ASN B 328 -39.773 86.660 35.456 1.00 43.76 BBBB ATOM 6250 O ASN B 328 -39.9773 86.660 35.456 1.00 43.76 BBBB ATOM 6251 N ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6252 CA ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6252 CA ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6253 CB ALA B 329 -41.971 86.088 35.680 1.00 46.98 BBBB ATOM 6255 O ALA B 329 -41.971 84.601 35.580 1.00 46.98 BBBB ATOM 6255 O ALA B 329 -41.971 84.601 35.580 1.00 46.98 BBBB ATOM 6255 O ALA B 329 -41.971 84.601 35.580 1.00 46.98 BBBB ATOM 6256 N THR B 330 -40.84 82.805 34.831 1.00 47.25 BATOM 6257 CA THR B 330 -40.84 82.805 34.831 1.00 45.36 BBBB ATOM 6256 CB THR B 330 -40.84 82.805 34.831 1.00 45.36 BBBB ATOM 6256 CB THR B 330 -40.208 82.500 33.397 1.00 45.36 BBBB ATOM 6250 CG2 THR B 330 -39.666 82.028 34.831 1.00 46.99 BBBB ATOM 6260 CG2 THR B 330 -39.676 82.028 36.914 1.00 46.95 BBBB ATOM 6261 C THR B 330 -39.443 82.451 35.787 1.00 49.13 BBBB ATOM 6262 CTHR B 330 -39.4676 82.028 36.914 1.00 46.05 BBBB ATOM 6266 CG ASN B 331 -35.841 83.147 32.532 1.00 43.34 BBBB ATOM 6266 CG ASN B 331 -35.841 83.779 35.874 1.00 52.98 BBBB ATOM 6267 OD ASN B 331 -36.017 83.479 35.874 1.00 52.98 BBBB ATOM 6267 OD ASN B 331 -36.017 83.479 35.874 1.00 52.98 BBBB ATOM 6267 OD ASN B 331 -36.64 81.11 33.056 1.00 55.06 BBBB ATOM 6267 OD ASN B 331 -36.831 33.934 33.866 1.00 55.05 BBBB ATOM 6267 OD ASN B 331 -36.831 33.936 33.890 1.00 54.62 BBBB ATOM 6270 C ASN B 331 -36.64 81.11 438.193 1.00 55.74 BBBB ATOM 6271 C ILE B 332 -38.183 33.944 4.00 57.18 BBBB ATOM 6272 C ASN B 331 -36.89 84.24 40.211 1.00 52.98 BBBB ATOM 6272 C ASN B 331 -36.630 39.891 1.00 54.62 BBBB ATOM 6274 CG2 ILE B 332 -38.898 84.224 40.211 1.00 55.06 BBBB ATOM 6270 C ASN B 331 -36.630 39.891 1.00 57.58 BBBB ATOM 6280 C ILE B 332 -38.898 84.294 40.211 1.00 57.58 BBBB ATOM 6280 C IL			CB	ASN	B 328	-39,155	87.640	33.246	1.00 41.43	BBBB
ATOM 6247 ODI ASN B 328									1.00 44.08	BBBB
ATOM 6248 ND2 ASN B 328										
ATOM 6249 C ASN B 328 -39.773 86.660 35.456 1.00 43.76 BBBB ATOM 6250 O ASN B 328 -39.383 85.822 36.274 1.00 43.76 BBBB ATOM 6251 N ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6252 CA ALA B 329 -42.176 86.088 35.620 1.00 46.10 BBBB ATOM 6253 CB ALA B 329 -41.971 84.601 35.580 1.00 46.38 BBBB ATOM 6255 O ALA B 329 -41.971 84.601 35.580 1.00 46.98 BBBB ATOM 6256 N ALA B 329 -41.971 84.601 35.580 1.00 46.98 BBBB ATOM 6255 O ALA B 329 -42.810 83.817 36.030 1.00 48.20 BBBB ATOM 6256 N THR B 330 -40.844 84.208 34.956 1.00 46.89 BBBB ATOM 6256 N COLUMN 6257 CA THR B 330 -40.844 84.208 34.951 1.00 47.25 BBBB ATOM 6258 CB THR B 330 -40.269 81.012 33.148 1.00 47.25 BBBB ATOM 6250 OCI THR B 330 -40.269 81.012 33.148 1.00 47.25 BBBB ATOM 6250 CC2 THR B 330 -340.269 81.012 33.148 1.00 45.36 BBBB ATOM 6260 CC2 THR B 330 -39.676 82.028 36.914 1.00 48.65 BBBB ATOM 6261 C THR B 330 -39.676 82.028 36.914 1.00 49.13 BBBB ATOM 6263 N ASN B 331 -35.616 82.028 36.914 1.00 49.13 BBBB ATOM 6266 CG ASN B 331 -37.018 82.364 36.110 1.00 52.60 BBBB ATOM 6266 CG ASN B 331 -35.017 83.479 34.421 1.00 52.98 BBBB ATOM 6266 CG ASN B 331 -36.017 83.479 35.874 1.00 49.13 BBBB ATOM 6266 CG ASN B 331 -36.017 83.479 34.421 1.00 52.98 BBBB ATOM 6266 CG ASN B 331 -36.81 33.779 34.421 1.00 52.98 BBBB ATOM 6267 OIL ASN B 331 -36.81 33.779 34.421 1.00 52.98 BBBB ATOM 6267 OIL ASN B 331 -36.81 33.779 34.421 1.00 52.98 BBBB ATOM 6267 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6267 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6267 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6267 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6267 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6267 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6267 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6268 C DIA SN B 331 -36.81 33.779 34.421 1.00 55.98 BBBB ATOM 6268 C DIA SN B 331 -36.81 33.99 1.00 54.62 BBBB ATOM 6268 C DIA SN B 331 -36.81 33.99 1.00 54.62 BBBB ATOM 6268 C DIA SN B 331 -36.86										
ATOM 6250 O ASN B 328	ATOM	6248	ND2	ASN	B 328	-38.012	86.445			
ATOM 6251 N ALA B 329	MOTA	6249	С	ASN	B 328	-39.773	86.660	35.456	1.00 43.76	BBBB
ATOM 6251 N ALA B 329 -41.053 86.837 35.122 1.00 45.84 BBBB ATOM 6252 CA ALA B 329 -42.176 86.088 35.680 1.00 46.38 BBBB ATOM 6253 CB ALA B 329 -42.176 86.088 35.680 1.00 46.38 BBBB ATOM 6253 CB ALA B 329 -42.176 86.088 35.680 1.00 46.38 BBBB ATOM 6255 CB ALA B 329 -42.801 83.81 36.03 1.00 46.38 BBBB ATOM 6255 CB ALA B 329 -42.801 83.81 73 6.030 1.00 46.98 BBBB ATOM 6256 N THR B 330 -40.874 84.208 34.963 1.00 46.89 BBBB ATOM 6257 CA THR B 330 -40.584 82.805 34.831 1.00 47.25 BBBB ATOM 6258 CB THR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6258 CB THR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6250 CG2 THR B 330 -40.229 81.012 33.148 1.00 46.06 BBBB ATOM 6260 CG2 THR B 330 -39.443 82.451 35.787 1.00 49.13 BBBB ATOM 6261 C THR B 330 -39.443 82.451 35.787 1.00 49.13 BBBB ATOM 6262 O THR B 330 -39.676 82.028 36.914 1.00 48.65 BBBB ATOM 6263 N ASN B 331 -38.215 82.641 35.328 1.00 50.775 BBBB ATOM 6266 CG ASN B 331 -37.018 82.364 36.110 1.00 52.60 BBBB ATOM 6266 CG ASN B 331 -35.814 83.779 35.874 1.00 52.98 BBBB ATOM 6266 CG ASN B 331 -35.814 83.779 35.874 1.00 52.98 BBBB ATOM 6266 CG ASN B 331 -35.814 83.779 35.874 1.00 52.98 BBBB ATOM 6266 CG ASN B 331 -35.814 83.779 35.874 1.00 52.98 BBBB ATOM 6266 CG ASN B 331 -36.813 83.934 33.686 1.00 51.88 BBBB ATOM 6266 CG ASN B 331 -36.813 83.934 33.686 1.00 51.88 BBBB ATOM 6267 ODI ASN B 331 -36.813 83.934 37.615 1.00 54.62 BBBB ATOM 6270 N ASN B 331 -36.813 83.934 37.615 1.00 55.46 BBBB ATOM 6270 C ASN B 331 -36.813 83.934 37.615 1.00 55.47 BBBB ATOM 6268 ND2 ASN B 331 -36.813 83.934 37.615 1.00 55.47 BBBB ATOM 6267 CDI LE B 332 -37.885 83.154 82.24 1.00 55.71 BBBB ATOM 6273 CB LLE B 332 -38.898 84.224 40.211 1.00 55.71 BBBB ATOM 6273 CB LLE B 332 -38.898 84.024 40.0573 1.00 55.74 BBBB ATOM 6273 CB LLE B 332 -38.898 84.056 1.00 57.74 BBBB ATOM 6274 CG2 LLE B 332 -38.898 84.224 40.211 1.00 57.71 BBBB ATOM 6274 CG2 LLE B 332 -38.898 84.00 67.71 LO 57.74 BBBB ATOM 6279 N LYS B 333 -40.147 79.870 39.241 1.00 57.76 BBBB ATOM 6280 CB LYS B 333 -40.147 79.870 39.241 1			0	ASN	B 328	-39.383	85.822	36.274	1.00 43.95	BBBB
ATOM 6253 CB ALA B 329									1.00 45.84	BBBB
ATOM 6253 CB ALA B 329										
ATOM 6254 C ALA B 329 -41.971 84.601 35.580 1.00 46.98 BBBB ATOM 6255 O ALA B 329 -42.801 83.817 36.030 1.00 48.20 BBBB ATOM 6255 N THR B 330 -40.874 84.208 34.963 1.00 46.99 BBBB ATOM 6255 N THR B 330 -40.584 82.805 34.831 1.00 47.25 BBBB ATOM 6259 OG1 THR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6259 OG1 THR B 330 -40.210 82.500 33.397 1.00 45.36 BBBB ATOM 6260 CG2 THR B 330 -40.269 81.012 33.148 1.00 46.06 BBBB ATOM 6260 CG2 THR B 330 -39.676 82.028 36.914 1.00 46.06 BBBB ATOM 6261 C THR B 330 -39.676 82.028 36.914 1.00 48.65 BBBB ATOM 6263 N ASN B 331 -38.215 82.641 35.328 1.00 50.75 BBBB ATOM 6266 CG ASN B 331 -37.018 82.364 36.110 1.00 52.60 BBBB ATOM 6266 CG ASN B 331 -36.813 83.793 43.421 1.00 52.98 BBBB ATOM 6266 CG ASN B 331 -36.813 83.793 43.421 1.00 52.98 BBBB ATOM 6266 ND2 ASN B 331 -36.813 83.934 33.686 1.00 50.75 BBBB ATOM 6266 ND2 ASN B 331 -36.813 83.934 33.686 1.00 55.88 BBBB ATOM 6269 C ASN B 331 -36.813 83.934 33.686 1.00 55.98 BBBB ATOM 6269 C ASN B 331 -36.617 83.459 34.963 1.00 54.41 BBBB ATOM 6270 O ASN B 331 -36.617 83.459 40.511 1.00 52.98 BBBB ATOM 6270 O ASN B 331 -36.616 81.214 38.159 1.00 54.41 BBBB ATOM 6270 C ASN B 331 -36.617 83.459 1.00 54.41 BBBB ATOM 6273 CB ILE B 332 -37.885 83.154 38.256 1.00 54.69 BBBB ATOM 6272 CA ILE B 332 -38.988 84.224 40.211 1.00 55.06 BBBB ATOM 6275 CG ILE B 332 -38.988 84.224 40.211 1.00 55.06 BBBB ATOM 6276 CDI ILE B 332 -38.988 84.224 40.211 1.00 55.06 BBBB ATOM 6276 CDI ILE B 332 -38.988 84.607 39.169 1.00 54.79 BBBB ATOM 6276 CDI ILE B 332 -38.988 84.224 40.211 1.00 55.06 BBBB ATOM 6276 CDI ILE B 332 -38.988 84.224 30.00 55.74 BBBB ATOM 6276 CDI ILE B 332 -38.988 84.224 30.00 55.74 BBBB ATOM 6276 CDI ILE B 332 -38.988 84.224 30.00 55.74 BBBB ATOM 6278 CDI ILE B 332 -38.988 84.224 30.00 55.75 BBBB ATOM 6278 CDI ILE B 332 -38.988 84.224 30.00 55.75 BBBB ATOM 6278 CDI ILE B 332 -38.763 81.118 30.70 57.74 BBBB ATOM 6280 CDI ILE B 333 -39.493 81.159 39.064 1.00 57.71 BBBB ATOM 6280 CDI ILE B 333 -39.493 81.159 39.064 1.00 57.75 BBBB ATOM 6280										
ATOM 6255 O ALA B 329	ATOM	6253	CB							
ATOM 6256 N THR B 330	MOTA	6254	С	ALA	B 329	-41.971	84.601			
ATOM 6256 N THR B 330	ATOM	6255	0	ALA	B 329	-42.801	83.817	36.030	1.00 48.20	BBBB
ATOM 6257 CA THR B 330			М	THR	B 330	-40.874	84.208	34.963	1.00 46.89	BBBB
ATOM 6258 CB THR B 330									1.00 47.25	BBBB
ATOM 6259 OGI THR B 330										
ATOM 6260 CG2 THR B 330										
ATOM 6261 C THR B 330	MOTA	6259	OG1	THR	B 330	-41.147				
ATOM 6262 O THR B 330	ATOM	6260	CG2	THR	B 330	-40.269	81.012	33.148	1.00 46.06	
ATOM 6262 O THR B 330		6261	С	THR	B 330	-39.443	82.451	35.787	1.00 49.13	BBBB
ATOM 6263 N ASN B 331								36.914	1.00 48.65	BBBB
ATOM 6264 CA ASN B 331									_	
ATOM 6265 CB ASN B 331										
ATOM 6266 CG ASN B 331	MOTA	6264	CA							
ATOM 6267 ODI ASN B 331	ATOM	6265	CB	ASN	B 331	-36.017	83.479			
ATOM 6267 OD1 ASN B 331	ATOM	6266	CG	ASN	B 331	-35.841	. 83 <b>.7</b> 79	34.421	1.00 52.98	BBBB
ATOM 6268 ND2 ASN B 331		6267	OD1	ASN	B 331	-36.813	83.934	33.686	1.00 51.88	BBBB
ATOM 6269 C ASN B 331									1.00 54.62	BBBB
ATOM 6270 O ASN B 331										
ATOM 6271 N ILE B 332									1.00 55.25	
ATOM 6272 CA ILE B 332	MOTA	6270	0	ASN	B 331				1.00 54.41	
ATOM 6273 CB ILE B 332	MOTA	6271	N	ILE	в 332	-37.885				
ATOM 6273 CB ILE B 332	ATOM	6272	CA	ILE	B 332	-38.111	L 83.056	39.691	1.00 55.47	BBBB
ATOM 6274 CG2 ILE B 332			CB	TLE	B 332	-38.988	84.224	40.211	1.00 55.06	BBBB
ATOM 6275 CG1 ILE B 332						-38.106	5 85.413	40.573	1.00 53.92	BBBB
ATOM 6276 CD1 ILE B 332			00.	. III	D 333					BBBB
ATOM 6277 C ILE B 332										
ATOM 6278 O ILE B 332										
ATOM 6279 N LYS B 333	ATOM	6277	С	ILE	B 332	-38.763				
ATOM 6279 N LYS B 333	ATOM	6278	0	ILE	B 332	-38.596	6 81.185	41.128	1.00 57.94	
ATOM 6280 CA LYS B 333		6279	N	LYS	B 333	-39.493	3 81.159	39.064	1.00 57.71	BBBB
ATOM 6281 CB LYS B 333										BBBB
ATOM 6282 CG LYS B 333										BBBB
ATOM 6283 CD LYS B 333										
ATOM 6284 CE LYS B 333	ATOM	6282	CG							
ATOM 6284 CE LYS B 333	ATOM	6283	CD	LYS	В 333	-42.75				
ATOM 6285 NZ LYS B 333			CE			-43.47	2 76.723	37.014	0.01 57.56	BBBB
ATOM 6286 C LYS B 333										BBBB
ATOM 6287 O LYS B 333										BBBB
ATOM 6288 N HIS B 334 -37.808 79.301 39.430 1.00 56.75 BBBE ATOM 6289 CA HIS B 334 -36.652 78.425 39.482 1.00 56.26 BBBE ATOM 6290 CB HIS B 334 -36.354 77.843 38.087 1.00 56.94 BBBE ATOM 6291 CG HIS B 334 -35.694 76.497 38.125 1.00 59.29 BBBE ATOM 6292 CD2 HIS B 334 -34.518 76.064 37.612 1.00 59.60 BBBE ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBE										
ATOM 6289 CA HIS B 334 -36.652 78.425 39.482 1.00 56.26 BBBE ATOM 6290 CB HIS B 334 -36.354 77.843 38.087 1.00 56.94 BBBE ATOM 6291 CG HIS B 334 -35.694 76.497 38.125 1.00 59.29 BBBE ATOM 6292 CD2 HIS B 334 -34.518 76.064 37.612 1.00 59.60 BBBE ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBE										
ATOM 6289 CA HIS B 334 -36.652 78.425 39.482 1.00 56.26 BBBE ATOM 6290 CB HIS B 334 -36.354 77.843 38.087 1.00 56.94 BBBE ATOM 6291 CG HIS B 334 -35.694 76.497 38.125 1.00 59.29 BBBE ATOM 6292 CD2 HIS B 334 -34.518 76.064 37.612 1.00 59.60 BBBE ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01	ATOM	6288	N			-37.80				
ATOM 6290 CB HIS B 334 -36.354 77.843 38.087 1.00 56.94 BBBE ATOM 6291 CG HIS B 334 -35.694 76.497 38.125 1.00 59.29 BBBE ATOM 6292 CD2 HIS B 334 -34.518 76.064 37.612 1.00 59.60 BBBE ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01	MOTA	6289	CA	HIS	B 334	-36.65	2 78.42	5 39.482		BBBB
ATOM 6291 CG HIS B 334 -35.694 76.497 38.125 1.00 59.29 BBBE ATOM 6292 CD2 HIS B 334 -34.518 76.064 37.612 1.00 59.60 BBBE ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01						-36.35	4 77.843	38.087	1.00 56.94	BBBB
ATOM 6292 CD2 HIS B 334 -34.518 76.064 37.612 1.00 59.60 BBBE ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBE										BBBB
ATOM 6293 ND1 HIS B 334 -36.240 75.419 38.793 1.00 60.20 BBBE ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBE										
ATOM 6294 CE1 HIS B 334 -35.428 74.383 38.692 1.00 60.01 BBBB										
AIOM 0294 CEI MIE B 554 55.426 11.565 50102 -	ATOM	6293								
	ATOM	6294	CE	1 HIS	B 334	-35.42	8 74.38	3 38.692		BBBB
								7 37.983	1 1.00 60.38	BBBB
	AION	0270	. 1 .			- 1.5.				

MOTA	6296	С	HIS E	3 334	-35.436	79.169	40.038	1.00 55.02	BBBB
MOTA	6297	0	HIS E	3 3 3 4	-34.328	79.057	39.519	1.00 55.52	BBBB
ATOM	6298	N	PHE E	335	-35.667	79.935	41.100	1.00 53.34	BBBB
ATOM	6299	CA	PHE E	335	-34.619	80.693	41.780	1.00 51.56	BBBB
MOTA	6300	CB	PHE E	335	-34.583	82.156	41.310	1.00 49.79	BBBB
ATOM	6301	CG	PHE E		-33.648	82.404	40.162	1.00 47.88	BBBB
ATOM	6302	CD1			-34.055	82.187	38.852	1.00 47.07	BBBB
MOTA	6303		PHE B		-32.345	82.810	40.393	1.00 46.89	BBBB
ATOM	6304		PHE B		-33.174	82.368	37.793	1.00 46.15	BBBB
ATOM	6305		PHE B		-31.459	82.992	39.336	1.00 46.91	BBBB
ATOM	6306	CZ	PHE B		-31.876	82.770	38.037	1.00 45.75	BBBB
ATOM	6307	c	PHE B		-34.936	80.663	43.266	1.00 43.73	
ATOM	6308	ō	PHE B		-34.395	81.447	44.040	1.00 52.18	BBBB
ATOM	6309	N	LYS B		-35.814	79.746	43.659	1.00 51.09	BBBB
ATOM	6310	CA	LYS B		-36.228	79.628	45.052	1.00 31.09	BBBB
ATOM	6311	СВ	LYS B		-37.404	78.667	45.165	1.00 50.13	BBBB
ATOM	6312	CG	LYS B		-38.327	78.991	46.310	1.00 50.77	BBBB
ATOM	6313	CD	LYS B		-38.930	80.358	46.104	1.00 52.44	BBBB
ATOM	6314	CE	LYS B		-39.556	80.459			BBBB
ATOM	6315	NZ	LYS B		-40.605		44.717	1.00 53.63	BBBB
ATOM	6316	C	LYS B			79.413	44.500	1.00 55.18	BBBB
ATOM	6317	Ö	LYS B		-35.120	79.170	45.989	1.00 48.81	BBBB
ATOM	6318	И	ASN B		-34.319	78.307	45.647	1.00 47.92	BBBB
ATOM	6319		ASN B		-35.081	79.764	47.174	1.00 48.40	BBBB
ATOM	6320	CB			-34.087	79.417	48.179	1.00 48.48	BBBB
			ASN B		-34.473	78.092	48.851	1.00 50.55	BEBB
ATOM	6321	ÇG	ASN B		-35.394	78.278	50.059	1.00 52.07	BBBB
ATOM	6322		ASN B		-36.016	77.320	50.533	1.00 53.07	BEBB
ATOM	6323		ASN B		-35.468	79.500	50.570	1.00 52.83	BBBB
ATOM	6324		ASN B		-32.641	79.320	47.689	1.00 47.50	BBBB
ATOM	6325		ASN B		-31.827	78.678	48.333	1.00 47.18	BBBB
ATOM	6326		CYS B		-32.303	79.937	46.565	1.00 47.51	BBBB
ATOM	6327		CYS B		-30.919	79.863	46.098	1.00 48.06	BBBB
ATOM	6328		CYS B		-29.999	80.433	47.181	1.00 47.37	BBBB
ATOM	6329		CYS B		-30.289	81.485	47.745	1.00 47.74	BBBB
ATOM	6330		CYS B		-30.733	80.658	44.797	1.00 49.63	BBBB
MOTA	6331		CYS B		-31.631	80.023	43.333	1.00 52.83	BBBB
ATOM	6332		THR B		-28.906	79.732	47.483	1.00 46.07	BBBB
ATOM	6333		THR B		-27.943	80.186	48.496	1.00 44.56	BBBB
ATOM	6334		THR B		-27.118	78.996	49.064	1.00 45.41	BBBB
ATOM	6335		THR B		-26.054	79.485	49.891	1.00 45.85	BBBB
ATOM	6336		THR B		-26.522	78.169	47.935	1.00 47.50	BBBB
MOTA	6337		THR B		-26.988	81.213	47.878	1.00 42.95	BBBB
MOTA	6338		THR B		-26.803	82.311	48.404	1.00 41.51	BBBB
ATOM	6339		SER B		-26.383	80.829	46.760	1.00 41.61	BBBB
MOTA	6340		SER B	340	-25.472	81.682	46.006	··1 <del>··</del> 00-40.00	BBBB
ATOM	6341		SER B	340	-24.011	81.249	46.203	1.00 39.63	BBBB
MOTA	6342		SER B	340	-23.688	80.103	45.424	1.00 36.55	BBBB
ATOM	6343	C	SER B	340	-25.878	81.410	44.571	1.00 39.38	BBBB
MOTA	6344	0	SER B	340	-26.553	80.419	44.305	1.00 39.30	BBBB
MOTA	6345	N	ILE B	341	-25.499	82.280	43.643	1.00 38.79	BBBB
MOTA	6346	CA :	ILE B	341	-25.833	82.020	42.244	1.00 37.29	BBBB
ATOM	6347		ILE B		-26.967	82.980	41.721	1.00 35.46	BBBB
MOTA	6348	CG2	ILE B	341	-28.218	82.814	42.567	1.00 35.12	BBBB
ATOM .	6349		ILE B		-26.520	84.431	41.741	1.00 33.30	BBBB
ATOM	6350	CD1	ILE B	341	-26.110	84.895	40.396	1.00 33.99	BBBB
MOTA	6351	C :	ILE B	341	-24.589	82.063	41.341	1.00 36.40	BBBB
MOTA	6352	0 :	ILE B	341	-23.852	83.050	41.305	1.00 34.58	BBBB
ATOM	6353		SER B		-24.340	80.944	40.664	1.00 35.98	BBBB
ATOM	6354		SER B		-23.213	80.810	39.748	1.00 35.85	BBBB
ATOM	6355	CB S	SER B	342	-22.821	79.338	39.590	1.00 38.14	BBBB
ATOM	6356		SER B		-21.873	79.166	38.550	1.00 40.56	BBBB
ATOM	6357		SER B		-23.685	81.364	38.419	1.00 34.19	BBBB
ATOM	6358		SER B		-24.448	80.732	37.705	1.00 33.81	BBBB
ATOM	6359		GLY B		-23.232	82.559	38.099	1.00 33.29	
ATOM	6360		GLY B		-23.252	83.199	36.876	1.00 33.29	BBBB
ATOM	6361		GLY B		-23.881	84.653	37.214		BBBB
ATOM	6362		GLY B		-23.881			1.00 34.50	BBBB
ATOM	6363		ASP B			85.125	38.244	1.00 35.41	BBBB
MOTA	6364				-24.594	85.372	36.360	1.00 34.63	BBBB
ATOM	6365		ASP B		-24.849	86.779	36.609	1.00 34.13	BBBB
ATOM	6366				-24.420	87.607	35.402	1.00 36.08	BBBB
ATOM	6367		ASP B		-23.172	87.052	34.724	1.00 38.86	BBBB
ATOM					-23.233	85.973	34.084	1.00 39.58	BBBB
ATOM	6368 6369		ASP B		-22.116	87.696	34.831	1.00 40.51	BBBB
ATOM			ASP B		-26.333	86.961	36.862	1.00 33.92	BBBB
AT OF	6370	O F	ASP B	744	-27.147	86.110	36.506	1.00 33.59	BBBB

ATOM	6371	N	LEU :	В	345	-26.687	88.067	37.499	1.00	33.45	BBBB
ATOM	6372		LEU			-28.083	88.354	37.778		32.48	BBBB
ATOM	6373		LEU			-28.287	88.522	39.274		31.64	BBBB
ATOM	6374	CG	LEU	В	345	-29.442	87.717	39.847	1.00	32.32	BBBB
MOTA	6375	CD1	LEU	В	345	-29.323	86.254	39.445	1.00	31.36	BBBB
ATOM	6376	CD2				-29.431	87.861	41.348		31.67	BBBB
ATOM	6377	С	LEU	В	345	-28.373	89.652	37.052		32.73	BBBB
ATOM	6378	0	LEU	В	345	-27.600	90.602	37.171	1.00	33.94	BBBB
ATOM	6379	N	HIS	В	346	-29.456	89.681	36.276	1.00	31.32	BBBB
ATOM	6380		HIS			-29.838	90.873	35.512		28.92	BBBB
ATOM	6381	CB	HIS	В	346	-29.837	90.597	34.012		28.60	BBBB
ATOM	6382	CG	HIS	В	346	-28.494	90.299	33.440	1.00	28.13	BBBB
ATOM	6383	CD2	HIS	B	346	-27.337	89.915	34.022	1.00	28.34	BBBB
ATOM	6384		HIS			-28.237	90.385	32.089	1 00	28.62	BBBB
											BBBB
MOTA	6385		HIS			-26.976	90.068	31.864		29.89	
MOTA	6386	NE2	HIS	В	346	-26.407	89.778	33.020	1.00	31.32	BBBB
ATOM	6387	С	HIS	В	346	-31.244	91.257	35.875	1.00	27.78	BBBB
ATOM	6388	ō	HIS			-32.102	90.397	35.922		28.95	BBBB
MOTA	6389	N	ILE	В	34/	-31.494	92.539	36.101		27.09	BBBB
MOTA	6390	CA	ILE	В	347	-32.840	92.997	36.439	1.00	27.34	BBBB
MOTA	6391	CB	ILE	R	347	-32.963	93.346	37.947	1.00	26.18	BBBB
ATOM	6392		ILE			-34.341	93.898	38.244		25.75	BBBB
MOTA	6393	CG1	ILE	В	347	-32.711	92.103	38.797		25.30	BBBB
MOTA	6394	CD1	ILE	В	347	-32.924	92.305	40.271	1.00	24.11	BBBB
MOTA	6395	С	ILE	R	347	-33.204	94.242	35.633	1.00	28.70	BBBB
			ILE			-32.880	95.356	36.038		30.31	BBBB
MOTA	6396	0									
ATOM	6397	N	LEU	В	348	-33.877	94.066	34.499		28.80	BBBB
MOTA	6398	CA	LEU	В	348	-34.265	95.210	33.664	1.00	29.33	BBBB
MOTA	6399	СВ	LEU	В	348	-33.975	94.900	32.196	1.00	27.88	BBBB
ATOM	6400	CG	LEU		348	-32.628	94.201	31.968		27.12	BBBB
MOTA	6401		LEU		348	-32.264	94.243	30.489		27.78	BBBB
ATOM	6402	CD2	LEU	В	348	-31.544	94.876	32.782	1.00	25.91	BBBB
ATOM	6403	С	LEU	В	348	-35.742	95.555	33.860	1.00	29.92	BBBB
ATOM	6404	0	LEU		348	-36.466	94.825	34.514	1.00	30.12	BBBB
										31.75	BBBB
ATOM	6405	И			349	-36.206	96.688	33.318			
ATOM	6406	CD	PRO	В	349	-35.480	97.845	32.774	1.00	32.35	BBBB
ATOM	6407	CA	PRO	В	349	-37.623	97.012	33.517	1.00	32.64	BBBB
ATOM	6408	CB	PRO	R	349	-37.741	98.431	32.962	1.00	31.85	BBBB
							98.571	32.056		32.06	BBBB
MOTA	6409	CG			349	-36.574					
ATOM	6410	С	PRO	В	349	-38.597	96.041	32.883	-	33.16	BBBB
ATOM	6411	0	PRO	В	349	-39.765	95.974	33.243	1.00	32.32	BBBB
ATOM	6412	N	VAT.	R	350	-38.104	95.268	31.940	1.00	35.77	BBBB
	6413	CA			350	-38.947	94.295	31.282		39.21	BBBB
ATOM											
MOTA	6414	CB			350	-38.131	93.531	30.250		39.69	BBBB
ATOM .	6415	CG1	VAL	. В	350	39:031-	92.691	29:389	1.00	40.98	BBBB
ATOM	6416	CG2	VAL	В	350	-37.335	94.520	29.420	1.00	41.00	BBBB
ATOM	6417	C	VAI.	В	350	-39.483	93.336	32.336	1.00	40.08	BBBB
ATOM					350	-40.610	92.867	32.258		40.81	BBBB
	6418	0									
MOTA	6419	N		_	351	-38.659	93.076			42.01	BBBB
MOTA	6420	CA	ALA	В	351	-39.003	92.173	34.419	1.00	44.91	BBBB
ATOM	6421	CB	ALA	В	351	-37.763	91.881	35.259	1.00	43.68	BBBB
ATOM	6422	С			351	-40.113	92.697	35.313	1.00	47.44	BBBB
										48.68	BBBB
ATOM	6423	0			351	-40.480	92.050	36.289			
MOTA	6424	N			352	-40.657	93.861	34.996		49.63	BBBB
MOTA	6425	CA	PHE	В	352	-41.711	94.401	35.838	1.00	52.66	BBBB
MOTA	6426	CB	PHE	В	352	-41.164	95.562	36.656	1.00	52.83	BBBB
ATOM	6427	CG			352	-40.240	95.141	37.741		52.84	BBBB
MOTA	6428		PHE			-39.143	95.922	38.074		53.95	BBBB
ATOM	6429	CD2	PHE	В	352	-40.471	93.972	38.445	1.00	53.12	BBBB
ATOM	6430	CE1	PHE	В	352	-38.282	95.546	39.096	1.00	54.39	BBBB
ATOM	6431		PHE			-39.617	93.585	39.471	1.00	55.12	BBBB
ATOM	6432	CZ			352	-38.518	94.375	39.797		55.09	BBBB
MOTA	6433	С	PHE	₿	352	-42.936	94.848	35.066		54.66	BBBB
ATOM	6434	0	PHE	В	352	-44.041	94.897	35.620	1.00	55.20	BBBB
MOTA	6435	N			353	-42.733	95.181	33.793	1.00	55.53	BBBB
ATOM	6436					-43.820	95.626	32.936		56.97	BBBB
		CA			353						
MOTA	6437	CB			353	-43.401	96.847	32.120		58.74	BBBB
ATOM	6438	CG	ARG	В	353	-42.443	96.528	30.977		61.31	BBBB
ATOM	6439	CD			353	-43.071	96.800		1.00	61.92	BBBB
ATOM	6440	NE			353	-43.323	98.223			63.75	BBBB
										64.99	BBBB
ATOM	6441	CZ			353	-42.378	99.161				
MOTA	6442	NH1	ARG	B	353	-41.097	98.841	29.493		64.35	BBBB
ATOM	6443	NH2	ARG	В	353	-42.716	100.428	29.132	1.00	65.92	BBBB
ATOM	6444	С			353	-44.146	94.487			57.33	BBBB
ATOM	6445	Ö			353	-45.220				58.35	BBBB
VI OM	0443	0	ARG	, 5	, ,,,,	-45.220	24.443	J1.J51	1.00		

ATOM	6446	N	GLY	В	354	-43.200	93.563	31.863	1.00 56.83	BBBB
ATOM	6447		GLY			-43.407	92.421	30.998	1.00 56.67	BBBB
ATOM	6448		GLY	В	354	-43.133	92.702	29.536	1.00 56.70	BBBB
ATOM	6449	0	GLY	В	354	-43.392	93.797	29.032	1.00 57.16	BBBB
ATOM	6450	N	ASP	В	355	-42.603	91.692	28.857	1.00 56.56	BBBB
MOTA	6451	CA	ASP	В	355	-42.270	91.767	27.442	1.00 56.39	BBBB
MOTA	6452		ASP			-40.884	91.160	27.206	1.00 58.47	BBBB
ATOM	6453		ASP			-40.455	91.218	25.757	1.00 60.05	BBBB
ATOM	6454	OD1				-41.258	90.846	24.875	1.00 60.82 1.00 61.71	BBBB BBBB
ATOM	6455	OD2				-39.303	91.625	25.500	1.00 55.78	BBBB
ATOM	6456		ASP			-43.310	90.931	26.725 27.241	1.00 55.64	BBBB
ATOM	6457		ASP			-43.720	89.898 91.364	25.545	1.00 55.04	BBBB
ATOM	6458	N	SER		356	-43.738 -44.731	90.601	24.807	1.00 54.22	BBBB
ATOM	6459 6460	CA CB	SER SER			-45.805	91.513	24.227	1.00 55.13	BBBB
ATOM ATOM	6461	OG	SER			-46.863	90.734	23.686	1.00 56.65	BBBB
ATOM	6462	C	SER			-44.094	89.803	23.690	1.00 53.19	BBBB
ATOM	6463	Ö			356	-44.621	88.775	23.280	1.00 53.00	BBBB
ATOM	6464	N	PHE			-42.965	90.279	23.187	1.00 52.15	BBBB
ATOM	6465	CA	PHE			-42.284	89.564	22.120	1.00 51.45	BBBB
ATOM	6466	CB	PHE	В	357	-41.190	90.422	21.497	1.00 50.63	BBBB
ATOM	646 <b>7</b>	CG	PHE	В	357	-40.396	89.704	20.451	1.00 50.42	BBBB
ATOM	6468	CD1	PHE	В	357	-40.969	89.386	19.226	1.00 49.99	BBBB
ATOM	6469	CD2			357	-39.086	89.311	20.703	1.00 50.80	BBBB
ATOM	6470		PHE			-40.254	88.687	18.268	1.00 51.16	BBBB
ATOM	6471		PHE			-38.357	88.610	19.751	1.00 51.15	BBBB
ATOM	6472	CZ			357	-38.942	88.296	18.530	1.00 51.77	BBBB BBBB
ATOM .	6473	С			357	-41.659	88.294	22.684	1.00 50.81 1.00 51.06	BBBB
ATOM	6474	0			357	-41.112	87.476 88.137	21.952 23.996	1.00 31.00	BBBB
ATOM	6475	N			358	-41.730 -41.165	86.959	24.617	1.00 49.23	BBBB
MOTA	6476	CA CB			358 358	-40.180	87.330	25.758	1.00 49.67	BBBB
ATOM ATOM	6477 6478				358	-39.295	88.368	25.323	1.00 50.24	BBBB
ATOM	6479				358	-39.340	86.140	26.121	1.00 49.18	BBBB
ATOM	6480	C			358	-42.322	86.163	25.185	1.00 48.68	BBBB
ATOM	6481	ō			358	-42.135	85.265	25.999	1.00 49.07	BBBB
ATOM	6482	N			359	-43.531	86.500	24.754	1.00 48.13	BBBB
ATOM	6483	CA			359	-44.707	85.802	25.239	1.00 47.15	BBBB
ATOM	6484	CB	HIS	В	359	-44.779	84.417	24.571	1.00 49.21	BBBB
ATOM	6485	CG	HIS	В	359	-44.512	84.429	23.085	1.00 52.77	BBBB
ATOM	6486				359	-43.397	84.116	22.376	1.00 52.88	BBBB
ATOM	6487				359	-45.462	84.792	22.149	1.00 54.36 1.00 54.33	BBBB BBBB
MOTA	6488				359	-44.947	84.701	20.934 21.043	1.00 54.55	BBBB
MOTA	6489				359	 -43.694 44.481	84.292 85.685	26.757	1.00 -4599	BBBB
ATOM	6490	C.			359	-44.719	84.641	27.355	1.00 46.35	BBBB
ATOM ATOM	6491 6492	O N			360	-44.013	86.781	27.361	1.00 44.51	BBBB
ATOM	6493	CA			360	-43.686	86.855	28.789	1.00 41.93	BBBB
ATOM	6494	СВ			360	-42.217	87.245	28.980	1.00 42.07	BBBB
ATOM	6495				360	-41.373	86.241	28.407	1.00 42.84	BBBB
MOTA	6496				360	-41.898	87.411		1.00 40.49	BBBB
ATOM	6497	С	THR	E	360	-44.486	87.815	29.667	1.00 41.37	BBBB
MOTA	6498	0			360	-44.549	89.013		1.00 40.83	BBBB
ATOM	6499	N			361	-45.079	87.297	30.756	1.00 41.18	BBBB BBBB
MOTA	6500	CD			361	-45.286	85.849		1.00 40.72 1.00 40.52	BBBB
MOTA	6501	CA			361	-45.886	88.034	31.740 32.585	1.00 40.32	BBBB
ATOM	6502	CB			3 361	-46.498	86.925 85.797		1.00 40.89	BBBB
ATOM	6503	CG			361 361	-46.609 -45.068	88.982		1.00 41.08	BBBB
ATOM	6504	С			361	-43.839	88.903		1.00 40.51	BBBB
ATOM	6505 6506	O N			3 362	-45.747	89.893			BBBB
ATOM ATOM	6507	CD			3 362	-47.178	90.217	_	1.00 43.39	BBBB
ATOM	6508	CA			3 362	-45.075	90.850		1.00 42.38	BBBB
ATOM	6509	CB			3 362	-46.182	91.847		1.00 42.21	BBBB
ATOM	6510	CG			362	-47.419			1.00 43.36	BBBB
ATOM	6511	C			362	-44.499			1.00 42.17	BBBB
ATOM	6512	ō	PRO	) [	3 3 6 2	-43.891	89.094		1.00 42.14	BBBB
ATOM	6513	N			363	-44.677	90.690		1.00 42.61	BBBB
ATOM	6514	CA			B 363	-44.125			1.00 44.33	BBBB
ATOM	6515	CB			B 363	-42.658			1.00 43.15	BBBB
ATOM	6516	CG			B 363	-41.575				BBBB
MOTA	6517				B 363	-40.213			1.00 42.46	BBBB BBBB
MOTA	6518				B 363	-41.824				BBBB
ATOM	6519				B 363	-44.915				BBBB
ATOM	6520	0	ıΕl	. و	В 363	-46.123	90.104	J7. IJ/	1.00 47.10	

ATOM	6521	N	ASP B	364	-44.222	90.772	40.122	1.00 47.39	BBBB
ATOM	6522	CA			-44.843	91.047	41.406	1.00 49.17	BBBB
ATOM	6523	CB	ASP B	364	-45.450	89.767	41.986	1.00 51.17	BBBB
ATOM	6524	CG	ASP B	364	-46.224	90.004	43.279	1.00 52.46	BBBB
ATOM	6525		ASP B	364	-45.719	90.730	44.170	1.00 53.72	BBBB BBBB
ATOM ATOM	6526 6527	C C			-47.336 -43.680	89.443 91.496	43.406 42.261	1.00 51.97 1.00 50.11	BBBB
ATOM	6528	0	ASP B		-42.895	90.684	42.735	1.00 30.11	BBBB
ATOM	6529	N	PRO B		-43.555	92.806	42.463	1.00 51.29	BBBB
ATOM	6530	CD	PRO B	365	-44.575	93.825	42.161	1.00 51.66	BBBB
ATOM	6531	CA	PRO B	365	-42.473	93.374	43.260	1.00 52.10	BBBB
ATOM	6532	CB	PRO B		-43.049	94.710	43.691	1.00 53.12	BBBB
ATOM	6533	CG	PRO B		-43.843	95.102	42.476	1.00 52.79	BEBB
ATOM ATOM	6534 6535	C O	PRO B		-42.021 -40.821	92.508 92.359	44.427 44.649	1.00 52.44	BBBB BBBB
ATOM	6536	N	GLN B		-42.964	91.931	45.169	1.00 53.29	BBBB
ATOM	6537	CA	GLN B		-42.581	91.081	46.295	1.00 54.32	BBBB
ATOM	6538	CB	GLN B		-43.790	90.646	47.127	1.00 54.37	BBBB
MOTA	6539	CG	GLN B		-43.366	89.771	48.302	1.00 56.94	BBBB
ATOM	6540	CD	GLN B		-44.521	89.268	49.162	1.00 58.98	BBBB
MOTA	6541	OE1			-45.358	90.048	49.625 49.396	1.00 59.81 1.00 58.67	BBBB BBBB
ATOM ATOM	6542 6543	NE2 C	GLN B		-44.555 -41.887	87.958 89.840	45.764	1.00 54.08	BBBB
ATOM	6544	o	GLN B		-40.849	89.423	46.276	1.00 54.71	BBBB
ATOM	6545	N	GLU B		-42.474	89.262	44.725	1.00 53.57	BBBB
ATOM	6546	CA	GLU B	367	-41.955	88.064	44.088	1.00 53.03	BBBB
MOTA	6547	CB	GLU B		-42.577	87.930	42.690	1.00 55.49	BBBB
ATOM	6548	CG	GLU B		-42.655	86.505	42.156	1.00 60.15	BBBB
MOTA	6549 6550	CD OF1	GLU B		-43.425	86.402 86.752	40.843	1.00 62.85 1.00 62.84	BBBB BBBB
ATOM ATOM	6551	OE1 OE2	GLU B		-44.627 -42.822	85.966	40.814 39.837	1.00 65.22	BBBB
ATOM	6552	C	GLU E		-40.428	88.080	43.993	1.00 51.01	BBBB
ATOM	6553	0	GLU E		-39.790	87.030	43.999	1.00 50.24	BBBB
MOTA	6554	N	LEU E	368	-39.847	89.273	43.928	1.00 49.14	BBBB
MOTA	6555	CA	LEU E		-38.400	89.411	43.814	1.00 48.22	BBBB
ATOM	6556	CB	LEU E		-38.058	90.698	43.052	1.00 47.13	BBBB
MOTA MOTA	6557 6558	CG	LEU E		-36.871 -35.591	90.663 91.134	42.075 42.746	1.00 46.22	BBBB BBBB
ATOM	6559		LEU E		-36.723	89.250	41.523	1.00 45.34	BBBB
ATOM	6560	C	LEU E		-37.665	89.380	45.155	1.00 48.47	BBBB
MOTA	6561	0	LEU E	368	-36.570	89.927	45.286	1.00 48.52	BBBB
ATOM	6562	N	ASP E		-38.274	88.751	46.154	1.00 48.02	BBBB
ATOM	6563	CA	ASP E		-37.649	88.620	47.463	1.00 47.49	BBBB BBBB
ATOM ATOM	6564 6565	CB CG	ASP E	3-369	-38.681 -39.030	88.776 90.214	48.563	1.00 48.63 -1-00-50-90	
ATOM	6566		ASP E		-38.167	90.928	49.354	1.00 51.96	BBBB
ATOM	6567		ASP E		-40.151	90.635	48.450	1.00 51.44	BBBB
MOTA	6568	С	ASP E	369	-37.028	87.239	47.514	1.00 47.18	BBBB
MOTA	6569	0	ASP E		-36.272	86.904	48.417		BBBB
ATOM	6570	N	ILE E		-37.364	86.438	46.513	1.00 46.08	BBBB
ATOM ATOM	657 <b>1</b> 6572	CA CB		370 370	-36.841 -37.180	85.100 84.545	46.390 45.014	1.00 44.33	BBBB BBBB
ATOM	6573		ILE I		-36.519	83.199	44.814	1.00 45.04	BBBB
ATOM	6574		ILE E		-38.702	84.471	44.870	1.00 45.30	BBBB
MOTA	6575	CD1	ILE E	3 370	-39.201	84.190	43.469	1.00 44.16	BBBB
ATOM	6576	С		3 370	-35.341	85.238	46.535	1.00 44.15	BBBB
ATOM	6577	0		3 370	-34.666	84.354	47.055	1.00 46.18	BBBB
MOTA MOTA	6578 6579	N CA		3 371 B 371	-34.825 -33.397	86.374 86.640	46.088 46.157	1.00 42.97 1.00 41.06	BBBB
ATOM	6580	CB		371	-33.038	87.858	45.297	1.00 39.49	BBBB
ATOM	6581	CG		B 371	-32.923	87.716	43.774	1.00 38.64	BBBB
ATOM	6582	CD1	LEU I	в 371	-34.207	87.176	43.170	1.00 38.53	BBBB
ATOM	6583		LEU		-32.613	89.069	43.190		BBBB
ATOM	6584	C		B 371	-32.920	86.877	47.575	1.00 40.15	BBBB
ATOM ATOM	6585 6586	O N		B 371 B 372	-31.727 -33.853	86.777 87.173	47.843 48.477	1.00 39.93 1.00 39.59	BBBB BBBB
ATOM	6587	CA		B 372	-33.535	87.468	49.881	1.00 39.39	BBBB
ATOM	6588	CB		B 372	-34.806	87.449	50.747	1.00 40.88	BBBB
MOTA	6589	CG		B 372	-35.744	88.643	50.555	1.00 40.72	BBBB
MOTA	6590	CD		B 372	-36.115	89.282	51.885	1.00 40.02	BBBB
MOTA	6591	CE		B 372	-34.869	89.718	52.644	1.00 39.28	BBBB
ATOM	6592	NZ		B 372	-35.199 -32.462	90.555	53.826		BBBB BBBB
ATOM ATOM	6593 6594	С 0		B 372 B 372	-32.462 -31.865	86.644 87.140	50.603 51.552		BBBB
MOTA	6595	И		B 373	-32.206	85.409			BBBB
			J						<b>-</b>

ATOM	6596	CA THR B 373	-31.195	84.598	50.862	1.00 34.68	BBBB
MOTA	6597	CB THR B 373	-31.777	83.242	51.305	1.00 33.43	BBBB
ATOM	6598	OG1 THR B 373	-30.745	82.447	51.904	1.00 31.44	BBBB
ATOM	6599	CG2 THR B 373	-32.383	82.521	50.124	1.00 32.61	BBBB
ATOM ATOM	6600	C THR B 373	-29.928	84.334	50.055	1.00 34.35	BBBB
ATOM	6601 6602	O THR B 373 N VAL B 374	-29.273	83.307	50.237	1.00 34.49	BBBB
ATOM	6603	CA VAL B 374	-29.578 -28.372	85.252 85.084	49.160 48.364	1.00 32.93	BBBB BBBB
ATOM	6604	CB VAL B 374	-28.538	85.652	46.929	1.00 32.55	BBBB
MOTA	6605	CG1 VAL B 374	-27.222	85.578	46.183	1.00 30.92	BBBB
ATOM	6606	CG2 VAL B 374	-29.580	84.872	46.175	1.00 30.16	BBBB
ATOM	6607	C VAL B 374	-27.252	85.823	49.077	1.00 32.27	BBBB
ATOM	6608	O VAL B 374	-27.394	86.989	49.409	1.00 31.83	BBBB
ATOM ATOM	6609 6610	N LYS B 375	-26.144	85.131	49.321	1.00 33.40	BBBB
ATOM	6611	CA LYS B 375 CB LYS B 375	-25.003 -24.539	85.725 84.831	50.005 51.165	1.00 33.33	BBBB
ATOM	6612	CG LYS B 375	-25.582	84.592	52.263	1.00 34.42	BBBB BBBB
ATOM	6613	CD LYS B 375	-26.667	83.611	51.829	1.00 32.93	BBBB
MOTA	6614	CE LYS B 375	-26.114	82.211	51.625	0.01 33.09	BEBB
ATOM	6615	NZ LYS B 375	-27.202	81.244	51.312	0.01 32.83	BBBB
ATOM	6616	C LYS B 375	-23.851	85.936	49.043	1.00 33.00	BBBB
MOTA	6617	O LYS B 375	-22.979	86.758	49.295	1.00 32.82	BBBB
MOTA MOTA	6618 6619	N GLU B 376 CA GLU B 376	-23.846	85.185	47.945	1.00 33.40	BBBB
ATOM	6620	CA GLU B 376 CB GLU B 376	-22.790 -21.655	85.314 84.319	46.940 47.220	1.00 34.43	BBBB
ATOM	6621	CG GLU B 376	-20.515	84.370	46.215	1.00 33.55 0.01 33.57	BBBB BBBB
ATOM	6622	CD GLU B 376	-19.450	83.329	46.495	0.01 33.37	BBBB
MOTA	6623	OE1 GLU B 376	-19.774	82.123	46.471	0.01 33.30	BBBB
ATOM	6624	OE2 GLU B 376	-18.289	83.716	46.740	0.01 33.29	BBBB
MOTA	6625	C GLU B 376	-23.264	85.146	45.486	1.00 34.90	BBBB
ATOM	6626	O GLU B 376	-24.081	84.275	45.163	1.00 34.20	BBBB
ATOM	6627	N ILE B 377	-22.732	86.010	44.625	1.00 35.06	BBBB
ATOM	6628	CA ILE B 377	-23.017	86.009	43.195	1.00 34.83	BBBB
ATOM ATOM	6629 6630	CB ILE B 377	-23.733	87.315	42.755	1.00 35.18	BBBB
ATOM	6631	CG2 ILE B 377 CG1 ILE B 377	-23.849 -25.138	87.378	41.249	1.00 33.96	BBBB
ATOM	6632	CD1 ILE B 377	-25.830	87.363 88.673	43.342 43.092	1.00 35.70 1.00 36.56	BBBB BBBB
ATOM	6633	C ILE B 377	-21.660	85.907	42.497	1.00 34.90	BBBB
ATOM	6634	O ILE B 377	-20.839	86.824	42.575	1.00 33.54	BBBB
ATOM	6635	N THR B 378	-21.436	84.775	41.831	1.00 35.70	BBBB
MOTA	6636	CA THR B 378	-20.188	84.504	41.122	1.00 35.91	BBBB
ATOM	6637	CB THR B 378	-20.190	83.083	40.516	1.00 37.88	BBBB
ATOM	6638	OG1 THR B 378	-21.237	82.973	39.543	1.00 39.67	BBBB
ATOM ATOM	6639 6640	CG2 THR B 378	-20.417	82.046	41.597	1.00 38.56	BBBB
ATOM	6641	C 'THR' B 378' O THR B 378	-19.926 -18.802	85.498 85.953	40.004 39.823	1.00·34.19 1.00 33.50	- BBBB BBBB
ATOM	6642	N GLY B 379	-20.966	85.830	39.252	1.00 33.65	BBBB
<b>ATOM</b>	6643	CA GLY B 379	-20.806	86.773	38.160	1.00 34.91	BBBB
ATOM	6644	C GLY B 379	-20.874	88.241	38.555	1.00 35.00	BBBB
ATOM	6645	O GLY B 379	-20.083	88.730	39.376	1.00 35.52	BBBB
ATOM	6646	N PHE B 380	-21.820	88.955	37.959	1.00 33.14	BBBB
ATOM	6647	CA PHE B 380	-21.973	90.361	38.255	1.00 31.35	BBBB
ATOM ATOM	6648	CB PHE B 380	-21.439	91.216	37.080	1.00 32.11	BBBB
ATOM	6649 6650	CG PHE B 380 CD1 PHE B 380	-22.220 -23.535	91.082 91.529	35.778	1.00 32.55	BBBB
ATOM	6651	CD2 PHE B 380	-21.616	90.567	35.670 34.644	1.00 32.68	BBBB BBBB
ATOM	6652	CE1 PHE B 380	-24.223	91.467	34.460	1.00 30.70	BBBB
MOTA	6653	CE2 PHE B 380	-22.305	90.507	33.435	1.00 31.63	BBBB
ATOM	6654	CZ PHE B 380	-23.608	90.958	33.349	1.00 30.27	BBBB
ATOM	6655	C PHE B 380	-23.424	90.694	38.576	1.00 30.56	BBBB
ATOM	6656	O PHE B 380	-24.325	89.879	38.341	1.00 30.65	BBBB
ATOM	6657	N LEU B 381	-23.633	91.879	39.144	1.00 28.35	BBBB
ATOM ATOM	6658 6659	CA LEU B 381	-24.960	92.359	39.494	1.00 26.07	BBBB
ATOM	6660	CB LEU B 381 CG LEU B 381	-25.030 -26.269	92.660 93.412	40.994 41.514	1.00 25.24 1.00 26.85	BBBB BBBB
ATOM	6661	CD1 LEU B 381	-27.526	92.587	41.270	1.00 26.65	BBBB
ATOM	6662	CD2 LEU B 381		93.731	42.998	1.00 27.17	BBBB
ATOM	6663	C LEU B 381	-25.213	93.632	38.692	1.00 24.88	BBBB
ATOM	6664	O LEU B 381	-24.467	94.591	38.804	1.00 25.16	BBBB
ATOM	6665	N LEU B 382	-26.254	93.627	37.871	1.00 24.12	BBBB
MOTA	6666	CA LEU B 382	-26.615	94.780	37.054	1.00 22.52	BBBB
ATOM	6667	CB LEU B 382	-26.386	94.481	35.580	1.00 22.74	BBBB
ATOM ATOM	6668.	CG . LEU B 382	-26.611	95.535	34.488	1.00 23.37	BBBB
ATOM ATOM	6669 6670	CD1 LEU B 382 CD2 LEU B 382	-26.581 -27.941	94.819	33.152	1.00 21.75	BBBB
011	5576	205 HPO B 205	-21.941	96.242	34.628	1.00 23.67	BBBB

ATOM	6671	С	LEU	В	382	-28.08	34	95.000	37.256	1.00	21.98	BBBB
MOTA	6672	0	LEU	В	382	-28.87	78	94.143	36.890	1.00	22.28	BBBB
ATOM	6673	N	ILE		383	-28.45		96.135	37.837	1.00		BBBB
ATOM	6674	CA	ILE			-29.86		96.450	38.063	1.00		BBBB
ATOM ATOM	6675 6676	CB CG2	ILE		383	-30.21 -31.61		96.610 97.214	39.557 39.697	1.00		BBBB BBBB
ATOM	6677		ILE		383	-30.14		95.267	40.266	1.00		BBBB
ATOM	6678		ILE			-30.59		95.342	41.685	1.00		BBBB
ATOM	6679	С	ILE		383	-30.19		97.759	37.389	1.00		BBBB
MOTA	6680	0	ILE	В	383	-29.49	97	98.743	37.602	1.00	22.60	BBBB
MOTA	6681	N	GLN		384	-31.26		97.757	36.591	1.00	24.72	BBBB
ATOM	6682	CA	GLN		384	-31.70		98.936	35.851	1.00		BBBB
MOTA	6683	CB	GLN		384	-31.60		98.691	34.346	1.00		BBBB
ATOM ATOM	6684 6685	CG	GLN GLN		384	-30.23		98.464	33.832	1.00		BBBB
ATOM	6686		GLN			-30.10 -29.0		98.347 98.397	32.333 31.722	1.00		BBBB BBBB
MOTA	6687		GLN			-31.3		98.189	31.723	1.00		BBBB
MOTA	6688	C	GLN		384	-33.1		99.325	36.193	1.00		BBBB
MOTA	6689	0	GLN	В	384			100.394	35.811	1.00	27.79	BBBB
ATOM	6690	И	ALA		385	-33.8	22	98.444	36.895	1.00		BBBB
ATOM	6691	CA	ALA		385	-35.1		98.702	37.323	1.00		BBBB
ATOM	6692	СВ	ALA			-36.1		98.252	36.261	1.00		BBBB
ATOM ATOM	6693 6694	C 0			385 385	-35.4		97.969	38.631	1.00		BBBB
ATOM	6695	N	TRP		386	-34.9 -36.2		96.852 98.601	38.822 39.530	1.00		BBBB BBBB
ATOM	6696	CA			386	-36.5		98.017	40.828	1.00		BBBB
ATOM	6697	CB			386	-35.7		98.744	41.926	1.00		BBBB
MOTA	6698	CG	TRP	В	386	-35.4	13	97.918	43.103	1.00	35.48	BBBB
MOTA	6699	CD2	TRP	В	386	-34.9	77	96.553	43.108	1.00	36.61	BBBB
ATOM	6700		TRP		386	-34.7	21	96.204	44.451	1.00	36.33	BBBB
ATOM	6701		TRP			-34.7		95.592	42.113	1.00		BBBB
ATOM	6702		TRP		386	-35.4		98.325	44.395		36.05	BBBB
ATOM	6703		TRP			-34.9		97.305	45.215		37.41	BBBB
ATOM ATOM	6704 6705	CZ2	TRP TRP		386	-34.2° -34.3		94.935 94.325	44.828 42.487	1.00	35.78	BBEB BBBB
ATOM	6706		TRP		386	-34.3		94.010	43.836	1.00		BBBB
ATOM	6707	C			386	-38.0		98.227	41.027		36.90	BBBB
ATOM	6708	Ō			386	-38.6		98.987	40.283		38.05	BBBB
ATOM	6709	N	PRO	В	387	-38.6	34	97.563	42.027	1.00	38.30	BBBB
ATOM	6710	CD	PRO	В	387	-38.1	84	96.361	42.752	1.00	37.15	BBBB
ATOM	6711	CA			387	-40.0		97.768	42.213		38.62	BBBB
ATOM	6712	CB			387	-40.4		96.695	43.236		37.79	BBBB
ATOM	6713	CG			387	-39.4		95.597	42.926		36.94	BBBB
ATOM ATOM	6714 6715	C	PRO		387 387	-40.5 -39.7		99.182 99.979	42.649 43.189		39.55	BBBB BBBB
ATOM	6716	N			390	-43.6		98.871	45.713		60.31	BBBB
MOTA	6717	CA			390	-42.6		99.910	45.894		59.47	BBBB
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ATOM	6720	CD	ARG	В	390	-43.8	95	100.778	48.753	1.00	68.81	BBBB
MOTA	6721	NE			390			100.209	49.627		71.45	BBBB
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MOTA	6723				390	-45.2		98.379	48.271		72.88	BBBB
ATOM ATOM	6724 6725	NH2 C			390	-46.4		98.631	50.216		72.78	BBBB
ATOM	6726	0			390 390	-41.6 -42.0		99.495 99.000	46.948 48.012		58.13	BBBB BBBB
ATOM	6727	N			391	-40.3		99.670	46.640		53.62	BBBB
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ATOM ATOM	6735 6736	CA CB			392 392			101.775	48.717 49.918		42.16 45.64	BBBB BBBB
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ATOM	6738				392			103.845	49.835		51.78	BBBB
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ATOM	6740	C			392			101.415	49.098		40.33	BBBB
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ATOM	6743	CA			393	-33.8		99.592	49.934		34.78	BBBB
ATOM	6744	CB			393	-33.8		98.994	51.409		28.74	BBBB
ATOM	6745	CG	ושנ	В	393	-34.7	34	97.961	52.193	1.00	22.05	BBBB

ATOM	6746	CDI	LEU	В	393	-34.107	97.665	53.503	1.00 15.92	BBBB
ATOM	6747		LEU			-36.100	98.467	52.488	1.00 18.82	BBBB
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ATOM	6749	0	LEU	В	393	-33.449	98.895	47.661	1.00 32.27	BBBB
ATOM	6750	N	HIS	В	394	-33.237	97.308	49.228	1.00 37.25	BBBB
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ATOM	6761	CA	ALA			-33.932	92.701	49.148	1.00 34.77	BBBB
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ATOM	6765	N	PHE		396	-31.536	92.525	48.787	1.00 32.94	BBBB
ATOM	6766	CA	PHE	В	396	-30.239	91.899	48.600	1.00 30.16	BBBB
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ATOM	6768	CG			396	-29.651	91.946	46.101	1.00 27.56	BBBB
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ATOM	6770	CD2				-30.051	92.729	45.021	1.00 27.20 1.00 26.83	BBBB BBBB
ATOM	6771	CE1				-29.571	90.039	44.636	1.00 24.99	BBBB
MOTA	6772	CE2				-30.212	92.184	43.763 43.568	1.00 27.16	BBBB
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ATOM ATOM	6775 6776	O N	GLU			-30.323	92.443	50.963	1.00 31.05	BBBB
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ATOM	678 <b>7</b> 6788	CB CG	ASN ASN			-29.707	88.406	53.766	1.00 30.12	BBBB
ATOM ATOM	6789		ASN			-29.888	89.298	54.587	1.00 30.73	BBBB
ATOM					398				1:00 30.71	BBBB
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ATOM	6796	CG			399	-25.086		47.112	1.00 28.93	BBBB BBBB
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MOTA	6798				399 399	-24.988 -24.169			1.00 31.72	BBBB
ATOM ATOM	6799 6800	C 0			399	-23.892			1.00 30.73	BBBB
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ATOM	6802	CA			3 400	-22.019			1.00 34.28	BBBB
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ATOM	6804	CG			3 400	-22.843		53.258	1.00 42.23	BBBB
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MOTA MOTA	6814 6815				3 401 3 401	-17.475			1.00 36.51	
ATOM	6816	CD.			3 401	-20.257			1.00 30.62	
ATOM	6817	Õ			3 401	-21.123			1.00 30.45	BBBB
ATOM	6818	N			3 402	-19.705			1.00 28.99	
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ATOM	6820	СВ	ILE	E	3 402	-20.509	90.974	44.037	1.00 29.35	BBBB

MOTA	6821	CG2	ILE	В	402	-20.836	90.850	42.564	1.00 29.84	BBBB
ATOM	6822	CG1				-21.782	91.430	44.753	1.00 29.51	BBBB
ATOM	6823 6824	CD1	ILE			-22.218 -18.639	92.830 89.328	44.354 43.965	1.00 27.58 1.00 26.96	BBBB BBBB
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ATOM	6826	N	ARG		403	-18.403	88.088	43.556	1.00 27.66	BBBB
ATOM	6827	CA	ARG		403	-17.127	87.729	42.974	1.00 30.16	BBBB
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ATOM ATOM	6831 6832	NE CZ	ARG ARG		403 403	-16.015 -15.020	84.322 84.137	45.397 46.252	1.00 34.39 1.00 34.37	BBBB BBBB
ATOM	6833	NH1		_	403	-13.825	84.672	46.023	1.00 31.66	BBBB
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MOTA	6837	N	GLY		404	-16.992	88.303	40.618	1.00 31.67	BBBB
ATOM ATOM	6838 6839	CA C	GLY GLY		404	-16.666 -15.914	89.168 88.449	39.502 38.403	1.00 30.86 1.00 30.15	BBBB BBBB
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ATOM ATOM	6853 6854	CA CB			406 406	-17.836 -18.979	87.773 86.887	34.687 34.228	1.00 29.14 1.00 28.44	BBBB BBBB
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ATOM ATOM	6860 6861	CA CB			407 407	-18.395 -17.130	91.499 92.365	34.252 34.206	1.00 28.68 1.00 28.31	BBBB BBBB
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MOTA	6865	NZ			407.		93.019	35.561	0.01.25.91	BBBB
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ATOM	6869	CA			408	-21.159	93.382	32.415		BBBB
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MOTA	6876	0	GLN	В	408	-19.632	95.214	32.065	1.00 22.33	BBBB
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ATOM	6892	CA			411	-16.076				BBBB
MOTA MOTA	6893 6894	CB CG			411 411	-16.204 -15.236				BBBB BBBB
ATOM	6895	CD			3 411	-13.824	97.790		1.00 38.80	BBBB
	_									

7 mov4	6006	OE1 GLN B 411	-13.501	98.806	32.543	1.00 42.41	BBBB
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ATOM	6910	O PHE B 412	-19.963	94.073			BBBB
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MOTA	6912	CA SER B 413	-19.284	93.560	38.453	1.00 21.81	
MOTA	6913	CB SER B 413	-18.213	93.142	39.441	1.00 20.05	BBBB
ATOM	6914	OG SER B 413	-17.697	94.278	40.106	1.00 20.68	BBBB
MOTA	6915	C SER B 413	-20.513	94.050	39.199	1.00 21.83	BBBB
ATOM	6916	O SER B 413	-21.353	93.260	39.630	1.00 22.48	BBBB
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ATOM	6919	CB LEU B 414	-21.405	96.276	41.478	1.00 22.05	BBBB
ATOM	6920	CG LEU B 414	-22.495	96.864	42.378	1.00 23.27	BBBB
ATOM	6921	CD1 LEU B 414	-23.836	96.156	42.200	1.00 23.70	BBBB
MOTA	6922	CD2 LEU B 414	-22.021	96.746	43.795	1.00 23.49	BBBB
MOTA	6923	C LEU B 414	-22.272	97.219	39.312	1.00 19.78	BBBB
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	6931	CA VAL B 416	-26.972	99.906	39.715	1.00 17.63	BBBB
MOTA			-26.942		41.273		BBBB
ATOM	6932		-28.202		41.773	1.00 14.58	BBBB
ATOM	6933	CG1 VAL B 416	-26.787	98.652	41.904	1.00 14.67	BBBB
ATOM	6934	CG2 VAL B 416	-27.330		39.105	1.00 19.27	BBBB
MOTA	6935	C VAL B 416	-26.961		39.626	1.00 21.90	BBBB
ATOM	6936	O VAL B 416	-28.961		38.005	1.00 20.39	BBBB
MOTA	6937	N VAL B 417	-28.067		37.286	1.00 20.14	BBBB
ATOM	6938	CA VAL B 417			35.802	1.00 19.44	BBBB
ATOM	6939	CB VAL B 417	-27.979			-1-00-21.04	BBBB
ATOM	6940	CG1 VAL B 417	28:545			1.00 18.28	BBBB
MOTA	6941	CG2 VAL B 417	-26.468		35.699	1.00 10.20	BBBB
MOTA	6942	C VAL B 417	-29.874		37.319	1.00 19.30	BBBB
MOTA	6943	O VAL B 417	-30.792		37.359	1.00 19.28	BBBB
ATOM	6944	N SER B 418	-30.044		37.299		BBBB
ATOM	6945	CA SER B 418		104.919	37.275	1.00 19.96 1.00 17.96	BBBB
ATOM	6946	CB SER B 418		105.152	35.846		BBBB
ATOM	6947	OG SER B 418		103.933	35.313	1.00 19.23	
MOTA	6948	C SER B 418		104.348	37.996	1.00 22.29	BBBB
ATOM	6949	O SER B 418		103.938	37.354	1.00 21.22	BBBB
ATOM	6950	N LEU B 419		104.363	39.323	1.00 24.67	BBBB
MOTA	6951	CA LEU B 419		103.864	40.103	1.00 28.55	BBBB
MOTA	6952	CB LEU B 419		102.707	41.011	1.00 30.43	BBBB
ATOM	6953	CG LEU B 419	-32.781	101.330	40.442	1.00 31.47	BBBB
ATOM	6954	CD1 LEU B 419	-33.399	101.119	39.052	1.00 30.17	BBBB
ATOM	6955	CD2 LEU B 419	-31.273	101.215	40.387	1.00 29.26	BBBB
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               CG
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7121 OD1 ASN B 442 -29.899 104.631 40.481 1.00 30.99 BBBB ATOM 7122 ND2 ASN B 442 -27.838 105.301 41.061 1.00 33.33 BBBB ATOM MOTA 7123 С ASN B 442 -30.673 108.961 41.121 1.00 36.64 BBBB ATOM 7124 0 ASN B 442 -29.982 109.471 41.991 1.00 38.09 BBBB 7125 LYS B 443 -31.787 109.506 40.651 1.00 39.17 BBBB ATOM N 41.087 1.00 41.00 LYS B 443 -32.278 110.808 BBBB MOTA 7126 CA LYS B 443 40.282 1.00 43.73 ATOM 7127 CB -33.549 111.148 BBBB 40.324 1.00 48.71 CG LYS B 443 -33.972 112.624 BBBB ATOM 7128 LYS B 443 -35.197 112.919 39.438 1.00 50.39 ATOM 7129 CD BBBB 7130 CE LYS B 443 -35.536 114.424 39.434 1.00 51.88 BEBB ATOM 7131 LYS B 443 -36.767 114.796 38.643 1.00 52.04 BBBB MOTA ΝZ 7132 LYS B 443 -32.533 110.980 42.601 1.00 39.97 BBBB ATOM С 7133 -32.682 112.105 43.074 1.00 40.10 MOTA 0 LYS B 443 **BBBB** ASN B 444 -32.575 109.889 43.362 1.00 38.42 BBBB ATOM 7134 N 7135 CA ASN B 444 -32.826 109.997 44.799 1.00 36.72 BBBB MOTA 45.163 1.00 36.16 7136 -34.223 109.478 BBBB ATOM CB ASN B 444 7137 ASN B 444 -35.317 110.074 44.320 1.00 35.45 BBBB MOTA CG 7138 OD1 ASN B 444 -35.280 111.253 43.997 1.00 37.05 BBBB ATOM 43.976 1.00 33.66 ATOM 7139 ND2 ASN B 444 -36.317 109.266 BBBB ATOM 7140 ASN B 444 -31.850 109.198 45.640 1.00 36.73 BBBB C -32.142 108.927 46.795 1.00 39.46 ATOM 7141 0 ASN B 444 BBBB **LEU** B 445 -30.702 108.814 45.102 1.00 35.45 BBBB ATOM 7142 N -29.787 107.985 45.885 1.00 33.84 7143 LEU B 445 BBBB CA ATOM 7144 CB LEU B 445 -29.001 107.047 44.968 1.00 31.18 BBBB ATOM 45.505 1.00 26.65 44.486 1.00 26.40 ATOM LEU B 445 -28.769 105.637 BBBB 7145 CG ATOM 7146 CD1 LEU B 445 -28.049 104.836 **BBBB** 7147 CD2 LEU B 445 -27.972 105.673 46.767 1.00 27.17 BBBB ATOM 46.784 1.00 34.44 **BBBB** ATOM 7148 С LEU B 445 -28.806 108.703 -27.788 109.205 46.316 1.00 35.09 BBBB MOTA 7149 Ω LEU B 445 48.083 1.00 35.12 CYS B 446 -29.090 108.703 7150 N BBBB MOTA MOTA 7151 CA CYS B 446 -28.216 109.341 49.057 1.00 36.68 BBBB 49.643 1.00 35.82 49.306 1.00 36.60 7152 CYS B 446 -27.188 108.364 BBBB ATOM C MOTA 7153 0 CYS B 446 -27.194 107.183 BBBB -29.065 109.956 50.157 1.00 40.92 -30.177 111.284 49.575 1.00 45.78 BBBB АТОМ 7154 CB CYS B 446 MOTA 7155 SG CYS B 446 BBBB -26.315 108.864 50.521 1.00 35.02 -25.234 108.084 51.173 1.00 32.52 ATOM 7156 N TYR B 447 BBBB TYR B 447 BBBB ATOM 7157 CA MOTA 7158 CB TYR B 447 -25.669 107.444 52.512 1.00 28.42 BBBB 52.891 1.00 27.69 52.237 1.00 27.36 -27.114 107.579 BBBB ATOM 7159 TYR B 447 CG MOTA 7160 CD1 TYR B 447 -28.096 106.852 BBBB MOTA 7161 CE1 TYR B 447 -29.436 107.001 52.568 1.00 28.05 BBBB BBBB -27.503 108.462 53.896 1.00 27.52 ATOM 7162 CD2 TYR B 447 MOTA 7163 CE2 TYR B 447 -28.837 108.623 54.233 1.00 27.58 BBBB -29.799 107.891 53.567 1.00 28.17 BBBB 7164 CZ TYR B 447 MOTA 7165 " OH "TYR B 447 ATOM -31.123 108.051 -53-893 --1-00 28.39 BBBB -24.569 106.986 50.371 1.00 32.12 BBBB MOTA 7166 C TYR B 447 -24.600 105.834 50.781 1.00 32.78 MOTA 7167 0 TYR B 447 BBBB ATOM 7168 N ALA B 448 -23.940 107.321 49.254 1.00 31.79 BBBB -23.297 106.282 48.472 1.00 32.80 BBBB ATOM 7169 CA ALA B 448 -24.024 106.098 47.149 1.00 30.89 MOTA 7170 CB ALA B 448 BBBB ATOM 7171 C ALA B 448 -21.814 106.553 48.248 1.00 34.20 BBBB MOTA -21.056 105.651 47.896 1.00 33.29 7172 ALA B 448 BBBB MOTA 7173 N **ASN B 449** -21.391 107.796 48.454 1.00 36.42 BBBB MOTA 7174 CA ASN B 449 -19.979 108.122 48.290 1.00 37.59 BBBB MOTA 7175 CB ASN B 449 -19.789 109.507 47.698 1.00 39.65 BBBB -18.343 109.784 47.350 1.00 42.79 ATOM 7176 CG ASN B 449 BBBB MOTA 7177 OD1 ASN B 449 -17.602 110.371 48.138 1.00 44.97 BBBB -17.926 109.340 46.169 1.00 44.66 ND2 ASN B 449 MOTA 7178 BBBB MOTA 7179 -19.355 108.074 49.662 1.00 36.91 BBBB С ASN B 449 MOTA 7180 O ASN B 449 -18.270 108.586 49.891 1.00 35.63 BBBB MOTA 7181 N THR B 450 -20.072 107.436 50.574 1.00 37.77 BBBB MOTA 7182 CA THR B 450 -19.633 107.297 51.949 1.00 37.50 BBBB 1.00 36.38 BBBB MOTA 7183 CB THR B 450 -20.849 107.327 52.905 -21.811 106.344 BBBB MOTA 7184 OG1 THR B 450 52.500 1.00 34.85 ATOM CG2 THR B 450 -21.490 108.693 52.886 1.00 34.80 BEBB 7185 ATOM -18.850 106.003 52.139 1.00 37.24 BBBB 7186 С THR B 450 -17.801 105.998 52.778 1.00 37.33 BBBB ATOM 7187 THR B 450 0 ATOM 7188 -19.355 104.907 51.581 1.00 37.04 BBBB N ILE B 451 ATOM 1.00 35.82 BBBB 7189 CA ILE B 451 -18.668 103.635 51.717 BBBB ATOM 7190 CB ILE B 451 -19.355 102.502 50.909 1.00 35.37 ATOM 7191 -18.562 101.217 51.025 1.00 33.64 BBBB CG2 ILE B 451 BBBB MOTA 7192 CG1 ILE B 451 -20.762 102.237 51.446 1.00 35.31 BBBB MOTA 7193 CD1 ILE B 451 -21.769 103.270 51.049 1.00 35.52 -17.253 103.812 51.205 1.00 35.96 BBBB MOTA 7194 C ILE B 451 ILE B 451 MOTA 7195 -16.972 104.699 50.408 1.00 36.94 BBBB 0

ATOM	7196	N	ASN				102.977	51.696	1.00 35.73	BBBB
ATOM	7197	CA	ASN		452		103.006	51.289	1.00 35.00	BBBB BBBB
ATOM	7198	CB CG	ASN ASN		452 452		102.862	52.526 52.226	1.00 37.09	BBBB
ATOM ATOM	7199 7200		ASN		452		102.391	51.326	1.00 41.20	BBBB
ATOM	7201	ND2					103.893	52.992	1.00 39.24	BBBB
ATOM	7202	С	ASN		452	-14.832	101.780	50.391	1.00 35.00	BBBB
MOTA	7203	0	ASN	В	452	-14.292	100.759	50.815	1.00 35.38	BBBB
MOTA	7204	N	TRP		453		101.874	49.161	1.00 33.57	BBBB
MOTA	7205	CA	TRP		453		100.758	48.218	1.00 31.55	BBBB
ATOM	7206	CB	TRP		453		101.185	46.842	1.00 29.63 1.00 28.02	BBBB BBBB
ATOM	7207 7208	CG CD2	TRP				101.709	46.816 46.693	1.00 24.78	BBBB
ATOM ATOM	7208		TRP				101.852	46.670	1.00 24.38	BBBB
ATOM	7210	CE3	TRP		453	-18.676	99.577	46.599	1.00 24.07	BBBB
ATOM	7211		TRP		453	-17.589	103.015	46.867	1.00 26.58	BBBB
ATOM	7212	NE1	TRP	В	453		103.109	46.776	1.00 24.26	BBBB
ATOM	7213		TRP		453		101.439	46.558	1.00 24.81	BBBB
ATOM	7214	CZ3	TRP		453	-20.006	99.165	46.487	1.00 25.37 1.00 24.79	BBBB BBBB
MOTA	7215 7216	CH2 C	TRP		453		100.093	46.466 48.082	1.00 24.79	BBBB
ATOM ATOM	7217	0	TRP		453	-13.737	98.952	48.010	1.00 31.43	BBBB
ATOM	7218	N	LYS		454		101.021	48.046	1.00 30.95	BBBB
ATOM	7219	CA	LYS		454	-11.501	100.539	47.936	1.00 31.92	~ BBBB
ATOM	7220	CB	LYS	В	454	-10.502	101.662	48.238	1.00 30.58	· BBBB
ATOM	7221	CG	LYS		454		101.262	48.101	1.00 28.94	BBBB
ATOM	7222	CD	LYS		454		100.835	46.681	0.01 29.06	BBBB
ATOM	7223	CE	LYS		454		100.398	46.563 46.943	0.01 28.90 0.01 28.78	BBBB BBBB
ATOM ATOM	7224 7225	NZ C	LYS LYS		454 454	-11.319	99.412	48.942	1.00 32.90	BBBB
ATOM	7226	Ö	LYS		454	-10.498	98.517	48.749	1.00 32.05	BBBB
ATOM	7227	N	LYS		455	-12.099	99.474	50.017	1.00 33.95	BBBB
ATOM	7228	CA	LYS	В	455	-12.056	98.473	51.071	1.00 35.50	BBBB
ATOM	7229	CB	LYS		455	-12.637	99.044	52.366	1.00 34.41	BBBB
ATOM	7230	CG	LYS		455		100.076	53.071	0.01 34.56	BBBB BBBB
ATOM	7231	CD	LYS		455 455	-10.541 -9.478	99.449 99.008	53.751 52.754	0.01 34.33 0.01 34.22	BBBB
ATOM ATOM	7232 7233	CE NZ	LYS LYS		455		100.149	51.940	0.01 34.35	BBBB
ATOM	7234	c	LYS		455	-12.814	97.219	50.666	1.00 37.23	BBBB
ATOM	7235	0	LYS	В	455	-12.440	96.116	51.042	1.00 37.65	BBBB
MOTA	7236	N	LEU		456	-13.882		49.898	1.00 39.40	BBBB
ATOM	7237	CA	LEU		456	-14.658		49.444	1.00 40.83	BBBB
ATOM	7238	CB	LEU		456	-16.012		48.925 49.959	1.00 41.03 1.00 42.71	BBBB BBBB
ATOM ATOM	7239 7240	CG CD1	LEU		456 456	-17.023 		49.251		BBBB
ATOM	7241	CD2			456	-17.458		50.830	1.00 43.20	BBBB
ATOM	7242	C	LEU		456	-13.925		48.331	1.00 42.10	BBBB
MOTA	7243	0	LEU	В	456	-14.173	94.315	48.106	1.00 43.20	BBBB
ATOM	7244	N			457	-13.014	96.202	47.652	1.00 42.09	· BBBB
ATOM	7245	CA			457	-12.251		46.527	1.00 41.92 1.00 41.18	BBBB BBBB
MOTA MOTA	7246 7247	CB CG			457 457	-11.651 -12.680		45.708 45.169	1.00 41.18	BBBB
ATOM	7247		PHE			-13.963	_	44.811	1.00 43.30	
ATOM	7249		PHE			-12.364		44.984	1.00 41.97	BBBB
ATOM	7250		PHE			-14.904	98.191	44.281	1.00 42.03	BBBB
MOTA	7251		PHE			-13.302		44.452	1.00 43.23	
ATOM	7252	CZ			457	-14.575		44.100	1.00 43.01	BBBB BBBB
ATOM	7253	C			457	-11.159 -10.793		46.856 48.018	1.00 42.98 . 1.00 43.50	
ATOM ATOM	7254 7255	O N			457 458	-10.793		45.818	1.00 43.71	BBBB
ATOM	7256	CA			458	-9.611		46.016	1.00 44.83	
ATOM	7257	C			458	-8.892		44.766	1.00 46.53	BBBB
ATOM	7258	0	GLY	В	458	-8.417		44.725	1.00 46.79	
ATOM	7259	N			459	-8.807		43.756	1.00 46.97	BBBB
ATOM	7260	CA			459	-8.130		42.493	1.00 47.72	
ATOM	7261	CB			459	-9.144		41.418	1.00 47.92 1.00 45.45	
ATOM ATOM	7262 7263				459 459	-9.513 -8.551		41.681 40.019	1.00 45.45	
ATOM	7264	C			459	-7.382		42.019	1.00 48.74	
ATOM	7265	0			459	-7.615		42.531	1.00 48.80	
ATOM	7266	Ν .			460	-6.476		41.060	1.00 49.77	
MOTA	7267				460	-5.694		40.559	1.00 50.40	
MOTA	7268	СВ			460	-4.447		39.812	1.00 51.85	
ATOM	7269	og			460	-4.761		38.511	1.00 51.21 1.00 50.41	
ATOM	7270	С	SER	. 13	460	-6.475	96.228	39.630	1.00 00.41	9006

ATOM	7271	0	SER	В	460	-6.924	95.8	06	38.562	1.00	52.20	BBBB
ATOM	7272	N			461	-6.630			40.027		48.50	BBBB
ATOM	7273	CA			461	-7.335			39.181		45.73	BBBB
ATOM	7274	c.			461	-8.77			39.548		43.89	BBBB
ATOM	7275											
		0			461	-9.413			38.935		43.99	BBBB
ATOM	7276	N			462	-9.308			40.533		40.89	BBBB
MOTA	7277	CA	GLN	В	462	-10.673	98.2	74	40.956	1.00	38.78	BBBB
MOTA	7278	CB	GLN	В	462	-10.934	97.5	48	42.271	1.00	39.35	BBBB
ATOM	7279	CG	GLN	В	462	-9.69	97.3	64	43.142	0.01	39.36	BBBB
MOTA	7280	CD	GLN	В	462	-9.009	98.6	70	43.488		39.51	BBBB
ATOM	7281	OE1	GLN	В	462	-9.588			44.144		39.49	BBBB
ATOM	7282		GLN		462	-7.76			43.047		39.49	BBBB
ATOM	7283	C	GLN		462	-10.92						
									41.111		37.17	BBBB
ATOM	7284	0			462		100.4		41.847		35.20	BBBB
ATOM	7285	N	LYS		463		100.2		40.391		36.69	BBBB
ATOM	7286	CA	LYS	В	463	-12.278	101.6	92	40.426	1.00	36.37	BBBB
MOTA	7287	CB	LYS	В	463	-11.78	102.4	02	39.164	1.00	34.77	BBBB
ATOM	7288	CG	LYS	В	463	-12.063	3 103.8	96	39.137	0.01	34.98	BBBB
MOTA	7289	CD	LYS	В	463	-11.488	104.5	49	37.888	0.01	34.66	BBBB
MOTA	7290	CE			463		3 104.4		37.836		34.66	BBBB
ATOM	7291	NZ			463		105.0					
	7292								36.619		34.42	BBBB
ATOM		С			463		3 101.8		40.546		36.89	BBBB
ATOM	7293	0			463		100.9		40.098		37.14	BBBB
ATOM	7294	N			464	-14.20	3 102.9	65	41.151	1.00	37.08	BBBB
ATOM	7295	CA	THR	В	464	-15.61	. 103.2	57	41.364	1.00	36.95	BBBB
MOTA	7296	CB	THR	В	464	-15.84	103.6	62	42.826	1.00	37.60	BBBB
ATOM	7297	OG1	THR	В	464	-17.07	2 103.0	90	43.288	1.00	38.18	BBBB
ATOM	7298		THR				105.1		42.963		36.79	BBBB
MOTA	7299	C			464		104.3		40.455		37.30	BBBB
ATOM	7300	ŏ			464				40.433			
							105.2				38.09	BBBB
ATOM	7301	N			465		3 104.4		40.161		38.22	BBBB
ATOM	7302	CA			465		105.5		39.289		38.36	BBBB
ATOM	7303	CB	LYS	В	465	-18.05	3 104.9	65	37.857	1.00	39.95	BBBB
MOTA	7304	CG	LYS	В	465	-18.03	106.0	33	36.749	1.00	41.88	BBBB
ATOM	7305	CD	LYS	В	465	-18.31	105.4	23	35.371	1.00	43.75	BBBB
MOTA	7306	CE	LYS	В	465	-17.86	106.3	24	34.209	1.00	44.01	BBBB
ATOM	7307	NZ	LYS	В	465		7 107.5		34.011		46.40	BBBB
ATOM	7308	С			465		106.0		39.780		36.47	BBBB
ATOM	7309	ō			465		7 105.8		39.114		37.08	BBBB
ATOM	7310	N			466		106.6		40.943		34.78	
												BBBB
ATOM	7311	CA			466		3 107.2		41.482		33.64	BBBB
ATOM	7312	CB			466		l 107.3		43.010		31.85	BBBB
ATOM	7313				466	-21.51	5 108.2	92	43.506	1.00	32.53	BBBB
ATOM	7314				466	-20.45	5 106.0	28	43.679	1.00	30.71	BBBB
ATOM	7315	CD1	ILE	B	466	 -19.17	L 105.2	67	43.601	1.00	30.02	BBBB
MOTA	7316	С	ILE	В	466	-20.74	108.5	98	40.846	1.00	33.54	BBBB
ATOM	7317	0			466		7 109.3		40.674		35.53	BBBB
ATOM	7318	N			467		108.8		40.494		31.91	BBBB
ATOM	7319	CA			467		9 110.1		39.862		30.02	BBBB
ATOM	7320	CB			467							
							3 110.3		38.605		29.30	BBBB
ATOM	7321				467		109.3				29.16	BBBB
ATOM	7322				467		3 111.8		38.074		29.15	BBBB
ATOM	7323				467		2 112.8		39.046		28.95	BBBB
ATOM	7324	С			467		3 110.2		39.438		29.92	BBBB
ATOM	7325	0			467	-24.53	2 109.2	59	39.423	1.00	29.72	BBBB
MOTA	7326	N	SER	В	468	-24.22	111.4	58	39.094	1.00	29.03	BBBB
ATOM	7327	CA	SER	В	468	-25.57	7 111.6	87	38.647	1.00	28.85	BBBB
ATOM	7328	CB			468		9 111.1		37.243		30.42	BBBB
ATOM	7329	OG			468		111.7		36.330		32.85	BBBB
ATOM	7330	C			468		2 111.0		39.558		28.94	
ATOM	7331	ŏ										BBBB
					468		5 110.5		39.097		27.78	BBBB
ATOM	7332	N			469		0 111.1		40.860		31.21	BBBB
ATOM	7333	CA			469		7 110.6		41.839		33.27	BBBB
MOTA	7334	CB	ASN	В	469	-26.67	2 109.7	51	42.819	1.00	36.29	BBBB
MOTA	7335	CG	ASN	В	469	-26.17	5 108.4	62	42.148	1.00	38.11	BBBB
ATOM	7336	OD1			469		2 107.6		41.632		37.75	BBBB
ATOM	7337				469		4 108.2		42.165		37.89	BBBB
ATOM	7338	C			469		4 111.9		42.531		33.93	BBBB
ATOM	7339	0			469							
ATOM							2 112.9		41.870		35.48	BBBB
	7340	N			470		1 111.9		43.821		32.97	BBBB
ATOM	7341	CA			470		0 113.1		44.442		32.69	BBBB
ATOM	7342	CB			470		2 112.8		45.636		31.81	BBBB
ATOM	7343	CG	ARG	В	470	-31.11	2 113.0	54	45.334	1.00	31.29	BBBB
MOTA	7344	CD	ARG	В	470	-31.95	8 113.1	01	46.597	1.00	31.41	BBBB
ATOM	7345	NE			470		1 114.3		47.278		31.56	BBBB
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ATOM	7346	CZ	ARG B	470	-	-32.283	114.621	48.519	1.00 31.62	BBBB
ATOM	7347	NH1	ARG B	470	-	-32.837	113.657	49.235	1.00 31.88	BBBB
ATOM	7348	NH2	ARG B	470			115.823	49.051	1.00 31.24	BBBB
MOTA	7349	С	ARG B	470			114.147	44.870	1.00 33.35	BBBB
ATOM	7350	0	ARG B				115.196	45.408	1.00 34.56	BBBB
ATOM	7351	N	GLY B				113.832	44.638	1.00 33.13	BBBB
ATOM	7352	ÇA	GLY B				114.755	44.996	1.00 32.68	BBBB
ATOM	7353	С	GLY B				115.229	46.438	1.00 33.32 1.00 31.72	BBBB BBBB
ATOM	7354	0	GLY B				115.558	47.021	1.00 31.72	BBBB
ATOM	7355	N	GLU B				115.284 115.701	46.992 48.367	1.00 37.16	BBBB
ATOM	7356	CA	GLU B				115.701	48.551	1.00 37.10	BBBB
ATOM ATOM	7357 7358	CB CG	GLU B				114.711	48.468	1.00 43.83	BBBB
ATOM	7359	CD	GLU B				113.849	49.715	1.00 45.30	BBBB
ATOM	7360		GLU B				114.407	50.831	1.00 46.03	BBBB
ATOM	7361		GLU B			-21.722	112.614	49.579	1.00 47.38	BBBB
ATOM	7362	C	GLU E			-24.651	116.911	48.876	1.00 37.33	BBBB
ATOM	7363	0	GLU E	472			116.773	49.614	1.00 37.84	BBBB
ATOM	7364	N	ASN E	473		-24.199	118.099	48.504	1.00 37.28	BBBB
ATOM	7365	CA	ASN E	3 473			119.328	48.930	1.00 37.64	BBBB
ATOM	7366	CB	ASN E				120.439	47.927	1.00 38.44	BBBB
MOTA	7367	CG	ASN E				120.917	47.979	1.00 39.22	BBBB
MOTA	7368		ASN E				121.411	46.989	1.00 39.07	BBBB BBBB
MOTA	7369		ASN E				120.784	49.143	1.00 42.02	BBBB
ATOM	7370	С	ASN E				119.201	49.102 50.072	1.00 38.22	BBBB
ATOM	7371	0	ASN E				119.686	48.168	1.00 33.07	BBBB
ATOM	7372	N	SER E				118.538 118.421	48.256	1.00 37.94	BBBB
MOTA	7373 73 <b>7</b> 4	CA CB	SER E				118.029	46.903	1.00 36.70	BBBB
ATOM ATOM	7374	OG	SER E				117.885	46.999	1.00 34.47	BBBB
ATOM	7376	C	SER E				117.477	49.311	1.00 39.01	BBBB
ATOM	7377	o	SER E				117.793	49.952	1.00 39.02	BBBB
ATOM	7378	N	CYS F			-28.364	116.326	49.512	1.00 41.21	BBBB
ATOM	7379	CA	CYS E	3 475		-28.916	115.385	50.482	1.00 42.39	BBBB
ATOM	7380	С	CYS E	3 475		-28.646	115.696	51.952	1.00 41.27	BBBB
ATOM	7381	0	CYS E	3 475			115.330	52.803	1.00 41.24	BBBB
ATOM	7382	CB	CYS I				113.913	50.156	1.00 43.92	BBBB
MOTA	7383	SG		3 475			112.804	50.873	1.00 50.19	BBBB BBBB
MOTA	7384	И		B 476			116.364	52.274 53.677	1.00 40.50 1.00 40.26	BBBB
ATOM	7385	CA		B 476			116.695	53.938	1.00 39.18	BBBB
ATOM	7386	CB		B 476 B 476			117.966	52.992	1.00 40.60	BBBB
ATOM	7387 7388	CG		B 476			117.984	53.175	1.00 40.35	BBBB
ATOM ATOM	7389	CE	LYS				118.425	54.570	1.00 39.46	BBBB
ATOM	7390			B <sup></sup> 476			118.564		1:00 40.02	BBBB
ATOM	7391	C		B 476		-28.193	117.883	54.053	1.00 40.86	BBBB
ATOM	7392	Ō	LYS	B 476		-28.713	3 117.962	55.165	1.00 40.18	BBBB
ATOM	7393	N	ALA !	B 477		-28.382	118.795	53.109	1.00 41.02	BBBB
MOTA	7394	CA		B 477			3 119.938	53.335	1.00 41.45	BBBB
ATOM	7395	CB		B 477			120.819	52.108	1.00 41.47	BBBB
MOTA	7396	С		B 477			119.408		1.00 41.73 1.00 41.69	BBBB BBBB
ATOM	7397	0		B 477			120.085	54.244 53.175	1.00 41.03	BBBB
MOTA	7398	И		B 478			3 118.193 2 117.583	53.419	1.00 44.15	BBBB
MOTA	7399	CA		B 478 B 478			5 116.814	52.199	1.00 44.60	BBBB
ATOM ATOM	7400 7401	CB OG1	THR				3 115.717	51.927	1.00 46.79	.BBBB
ATOM	7401		THR				117.728	50.994	1.00 44.53	BBBB
ATOM	7403	C		B 478			116.629	54.593	1.00 44.74	BBBB
ATOM	7404	ō		B 478			7 115.823		1.00 43.79	BBBB
ATOM	7405	N		B 479			116.739			BBBB
ATOM	7406	CA	GLY	B 479		-30.680	0 115.925			BBBB
MOTA	7407	С	GLY	B 479			3 114.434	56.201	1.00 48.12	BBBB
ATOM	7408	0		B 479			4 113.705			BBBB
MOTA	7409	N		B 480			0 113.971			BBBB
MOTA	7410	CA		B 480			1 112.555			BBBB BBBB
MOTA	7411	CB		B 480			6 112.155			BBBB
ATOM	7412	CG		B 480			5 112.479 0 111 791			BBBB
ATOM	7413	CD		B 480			0 111.791 4 111.927			BBBB
ATOM	7414		L GLN 2 GLN				4 111.927 3 111.041			BBBB
ATOM	7415 7416	C		B 480			3 111.041 3 112.196			BBBB
MOTA MOTA	7417	0		B 480		-27.42	6 112.306	54.026		BBBB
ATOM	7418	N		B 481		-27:38	1 111.790	56.216		BBBB
ATOM	7419			B 481		-25.99	7 111.374	56.196	1.00 47.13	BBBB
ATOM	7420			B 481			0 112.432			BBBB
-	-									

ATOM	7421	CG1	VAL	В	481		-23	. 683	112.2	28	56.15	60	1.00	45.71	1	BBBB
ATOM	7422	CG2							113.8		56.46		1.00	44.10		BBBB
ATOM	7423	С	VAL						110.1		57.11			47.82	1	BBBB
ATOM	7424	0	VAL						109.6		57.49			47.93		BBBB
ATOM	7425	N	CYS						109.7		57.49			48.26		BBBB
	7425		CYS								58.36			49.53		BBBB
MOTA		CA							108.6					51.36		
ATOM	7427	C	CYS				-		108.8		59.82					BBBB
ATOM	7428	0	CYS						109.4		60.60			52.04		BBBB
ATOM	7429	CB	CYS	В	482		-23	.137	108.1	.55	58.26	53	1.00	49.30	1	BBBB
ATOM	7430	SG	CYS	В	482		-22	. 677	107.6	40	56.57	12	1.00	47.63		BBBB
ATOM	7431	N	HIS	В	483		-26	.199	108.3	385	60.16	8	1.00	52.60	:	BBBB
MOTA	7432	CA	HIS	В	483		-26	.789	108.5	24	61.50	)6	.1.00	53.18		BBBB
ATOM	7433	CB	HIS	В	483		-28	.030	107.6	524	61.60	7	1.00	55.04		BBBB
ATOM	7434	CG	HIS	В	483		-28	. 583	107.4	185	62.99		1.00	56.26		BBBB
ATOM	7435		HIS						108.1		63.65			57.58		BBBB
ATOM	7436		HIS						106.5		63.88			56.00		BBBB
ATOM	7437		HIS						106.6		65.0			56.69		BBBB
														58.65		BBBB
ATOM	7438		HIS						107.6		64.90					
MOTA	7439	С	HIS						108.2		62.70			52.96		BBBB
MOTA	7440	0			483				107.9		62.5			51.72		BBBB
MOTA	7441	N	ALA						108.4		63.8			52.89		BBBB
ATOM	7442	CA	ALA	В	484		-25	.791	108.2	276	65.1	79		52.43		BBBB
ATOM	7443	CB	ALA	В	484		-25	.840	106.8	312	65.6	21	1.00	51.49		BBBB
ATOM	7444	C	ALA	В	484		-24	.361	108.6	596	64.9	81	1.00	52.65		BBBB
MOTA	7445	0	ALA	В	484		-24	.057	109.8	352	64.6	90	1.00	52.87		BBBB
ATOM	7446	N	LEU	В	485		-23	.488	107.7	721	65.1	31	1.00	52.44		BBBB
ATOM	7447	CA			485				107.9		64.9			52.03		BBBB
ATOM	7448	СВ			485				108.2		66.2		1.00	51.32		BBBB
ATOM	7449	CG			485				107.2		67.3			51.44		BBBB
ATOM	7450		LEU						107.7		68.4			51.37		BBBB
									106.9		67.8			51.38		BBBB
ATOM	7451		LEU													
ATOM	7452	C			485				106.5		64.4			52.61		BBBB
ATOM	7453	0			485				105.5		64.8			52.20		BBBB
ATOM	7454	N	CYS						106.		63.5			52.71		BBBB
MOTA	7455	CA			486				105.3		62.9			53.14		BBBB
ATOM	7456	С	CYS	В	486		-19	.073	105.8	896	61.9	63		53.52		BBBB
ATOM	7457	0	CYS	В	486		-18	.178	105.1	185	61.5	15	1.00	52.97		BBBB
ATOM	7458	CB	CYS	₿	486		-21	.136	104.	472	62.3	84	1.00	53.26		BBBB
ATOM	7459	SG	CYS	В	486		-22	.126	104.9	941	60.9	20	1.00	52.94		BBBB
MOTA	7460	N	SER	В	487		-19	.241	107.3	177	61.6	64	1.00	54.60		BBBB
MOTA	7461	CA	SER	В	487		-18	.427	107.5	937	60.7	28	1.00	56.06		BBBB
ATOM	7462	CB			487				108.		61.5			55.71		BBBB
ATOM	7463	OG			487				109.		62.2			54.15		BBBB
MOTA	7464	C			487				107.		59.7			56.64		BBBB
ATOM	7465	ō			487				106.					57.44		BBBB
ATOM	7466				488				106.		60.1			56.35		BBBB
		И									61.5			55.86		BBBB
MOTA	7467	CD			488				106.					56.84		BBBB
ATOM	7468	CA			488				106.		59.2			58.03		BBBB
MOTA	7469	CB			488				105.		60.2					
ATOM	7470	CG			488				105.		61.5			57.02		BBBB
ATOM	7471	С			488				105.					57.30		BBBB
MOTA	7472	0			488				104.		58.9			58.97		BBBB
MOTA	7473	И			489		-15	5.807	105.	042	57.1	.38		56.79		BBBB
ATOM	7474	CA	GLU	В	489		-16	5.513	104.	105	56.2	76		55.78		BBBB
MOTA	7475	CB	GLU	В	489		-16	5.303	102.	666	56.7	47	1.00	57.96		BBBB
MOTA	7476	CG	GLU	В	489		-14	1.984	102.	028	56.3	808	1.00	60.38		BBBB
MOTA	7477	CD	GLU	В	489		-13	3.826	102.	323	57.2	38	1.00	60.38		BBBB
ATOM	7478	OE1	GLU	В	489		-13	3.624	103.	510	57.5	65	1.00	61.19		BBBB
MOTA	7479				489				101.		57.6		1.00	59.85		BBBB
ATOM	7480	C			489				104.		56.3			54.41		BBBB
ATOM	7481	ō			489				104.		57.3			53.83		BBBB
ATOM	7482	И			490				104.		55.2			53.41		BBBB
														50.95		BBBB
ATOM	7483	CA			490				105.		55.0					
ATOM	7484	С			490				104.		55.7			48.30		BBBB
ATOM	7485	0			490				104.		56.8			47.22		BBBB
ATOM	7486	N			491				104.		55.0			46.99		BBBB
MOTA	7487	CA			491				104.		55.5			46.34		BBBB
ATOM	7488	С			491				103.		54.4			45.23		BBBB
ATOM	7489	0	CYS	5 E	491		-2	4.888	3 104.	512	53.8			46.17		BBBB
ATOM	7490	CB	CYS	S E	491		-2	4.096	5 104.	944	56.5	539	1.00	47.21		BBBB
ATOM	7491	SG	CYS	3 E	491		-2	4.342	2 106.	650	55.9	943	1.00	45.92		BBBB
ATOM	7492	N			492				5 102.					44.16		BBBB
ATOM	7493	CA			492				5 101.					43.38		BBBB
ATOM	7494	СВ			492				1 100.					42.95		BBBB
ATOM	7495	CG			3 492			4.29		755				42.68		BBBB
01-1		-00	71/1			•	. 4		- 22.		55.0					

АТОМ	7496	CD2	TRP	В	492	-23.550	99.684	51.806	1.00	43.22	BBBB
ATOM	7497	CE2	TRP			-22.308	99.088	52.108	1.00	42.67	BBBB
ATOM	7498		TRP			-23.811		50.483	1.00	43.57	BBBB
ATOM	7499		TRP			-23.504	99.213	53.989	1.00	42.84	BBBB
ATOM	7500		TRP			-22.305	98.811	53.447	1.00	43.12	BBBB
ATOM	7501	CZ2	TRP			-21.326	98.867	51.138	1.00		BBBB
ATOM	7502	CZ3	TRP			-22.830	99.845	49.516	1.00		BBBB
ATOM	7503	CH2	TRP			-21.606	99.250	49.852	1.00		BBBB
ATOM	7504	C	TRP			-26.953		53.468	1.00		BBBB
ATOM	7505	Ö	TRP			-27.894		52.819	1.00		BBBB
ATOM	7506	N	GLY			-27.090		54.349	1.00		BBBB
	7507	CA	GLY			-28.400		54.591	1.00		BBBB
ATOM	7508		GLY			-28.531		55.775	1.00		BBBB
ATOM		C						56.422	1.00		BBBB
ATOM	7509	0	GLY			-27.545					
MOTA	7510	N	PRO			-29.762		56.077	1.00		BBBB
ATOM	7511	CD	PRO			-30.940		55.221	1.00		BBBB
MOTA	7512	CA	PRO			-30.095		57.170	1.00		BBBB
ATOM	7513	CB	PRO			-31.406		56.694	1.00		BBBB
ATOM	7514	CG	PRO				105.832	56.022	1.00		BBBB
ATOM	7515	С	PRO				105.761	58.575	1.00		BBBB
ATOM	7516	0	PRO	В	494	-29.689	106.322	59.543	1.00		BBBB
ATOM	7517	N	GLU	В	495		104.630	58.676	1.00	•	BBBB
ATOM	7518	CA	GLU	В	495	-31.107	103.910	59.932	1.00		BBBB
ATOM	7519	CB	GLU	В	495	-31.865	102.583	59.661	1.00		BBBB
MOTA	7520	CG	GLU	В	495	-33.413	102.706	59.398	1.00	24.02	BBBB
ATOM	7521	CD	GLU	В	495	-34.130	101.349	59.125	1.00	23.08	BBBB
ATOM	7522	OE1	GLU	В	495	-35.381	101.263	59.055	1.00	19.65	BBBB
ATOM	7523	OE2	GLU	В	495	-33.433	100.348	58.965	1.00	21.80	BBBB
ATOM	7524	С	GLU	В	495	-29.678	103.680	60.474	1.00	32.90	BBBB
ATOM	7525	0	GLU	В	495	-28.705	103.775	59.714	1.00	32.12	BBBB
ATOM	7526	N	PRO		496	-29.523	103.411	61.792	1.00	34.05	BBBB
MOTA	7527	CD	PRO	В	496	-30.564	103.450	62.834	1.00	33.52	BBBB
ATOM	7528	CA			496	-28.199	103.187	62.406	1.00	33.78	BBBB
ATOM	7529	CB			496		103.366	63.894	1.00	31.11	BBBB
ATOM	7530	CG	PRO		496		102.859	64.018	1.00	32.88	BBBB
ATOM	7531	C			496		101.881	62.107	1.00	34.21	BBBB
ATOM	7532	ō			496		101.880	62.059	1.00	34.46	BBBB
ATOM	7533	N	ARG				100.778	61.902	1.00	33.76	BBBB
ATOM	7534	CA	ARG			-27.496	99.526	61.594		33.80	BBBB
ATOM	7535	СВ	ARG			-28.363	98.313	61.978	1.00	34.79	BBBB
ATOM	7536	CG	ARG		497	-29.565	98.000	61.100	1.00	34.41	BBBB
ATOM	7537	CD	ARG		497	-29.388	96.639	60.420	1.00	33.97	BBBB
ATOM	7538	NE			497	-30.654	96.076	59.948	1.00	36.21	BBBB
ATOM	7539	CZ			497	-31.467	96.660	59.066	1.00	37.08	BBBB
ATOM	7540		ARG			 -31.154	97.840	58.537	1.00	36.24	BBBB
ATOM	7541		ARG			-32.607	96.071	58.722	1.00	35.97	BBBB
ATOM	7542	С			497	-27.084	99.463	60.124	1.00	33.72	BBBB
ATOM	7543	ō			497	-26.471	98.501	59.680	1.00	33.27	BBBB
ATOM	7544	N	ASP	В	498	-27.429	100.496	59.369	1.00	35.22	BBBB
ATOM	7545	CA			498		100.562	57.970	1.00		BBBB
MOTA	7546	CB			498		101.539	57.179		37.31	BBBB
ATOM	7547	ÇG			498		101.160	57.188	1.00	39.15	BBBB
ATOM	7548		ASP			-29.692		57.424	1.00	40.35	BBBB
ATOM	7549		ASP				102.048	56.942		38.15	BBBB
ATOM	7550	C			498		101.103	58.019		40.69	BBBB
ATOM	7551	Ö			498		101.373	56.990		42.07	BBBB
ATOM	7552	N			499		101.287	59.231		42.50	BBBB
	7553				499		101.803	59.399		45.37	BBBB
MOTA		CA			499		100.664	59.065		45.63	BBBB
ATOM	7554	C		_				59.003		45.46	BBBB
ATOM	7555	0			499		99.510	60.844		48.00	BBBB
ATOM	7556	CB			499		102.267				BBBB
ATOM	7557	SG			499		104.015	61.277		50.94 46.05	BBBB
ATOM	7558	И			500		100.974	58.844			BBBB
ATOM	7559	CA			500	-20.563		58.522		47.49	BBBB
ATOM	7560	CB			500		100.483	57.617		46.09	
MOTA	7561				500		100.938	56.287		44.08	BBBB
MOTA	7562				500		101.631	58.303		45.72	BBBB
MOTA	7563	С			500	-19.960		59.781		49.30	BBBB
ATOM	7564	0			500	-18.714		59.935		50.61	BBBB
ATOM	7565		VAL			-20.745		60.609		49.61	BBBB
MOTA	7566	CB	SER			40.468		30.883		68.63	CCCC
ATOM	7567	OG	SER			40.453		32.244		68.70	CCCC
MOTA	7568	C	SER			38.079		30.472		68.34	CCCC
ATOM	7569	0	SER			37.487		30.194		67.22	CCCC
ATOM	7570	N	SER	С	3	39.989	29.476	30.121	1.00	68.62	CCCC

MOTA	7571	CA	SER C		3	39.542	28.055	30.040	1.00 68.76	CCCC
ATOM	7572	N	HIS C		4	37.523	28.871	31.161 31.605	1.00 67.97 1.00 68.08	CCCC
ATOM ATOM	7573 7574	CA CB	HIS O		4	36.116 35.602	28.884 27.460	31.902	1.00 69.34	cccc
ATOM	7575	CG	HIS (		4	34.321	27.127	31.188	1.00 70.44	CCCC
MOTA	7576	CD2	HIS (	2	4	33.073	26.886	31.657	1.00 70.59	CCCC
ATOM	7577		HIS (		4	34.224	27.077	29.813	1.00 70.15 1.00 69.83	CCCC
ATOM	7578 7579		HIS (		4 4	32.973 32.254	26.827 26.708	29.467 30.568	1.00 70.27	CCCC
ATOM ATOM	7580	C	HIS (		4	35.790	29.810	32.794	1.00 66.97	CCCC
MOTA	7581	ō	HIS		4	35.451	30.981	32.603	1.00 66.52	CCCC
MOTA	7582	N	PHE (		5	35.877	29.293	34.016	1.00 66.06	CCCC
ATOM	7583	CA	PHE (		5	35.574	30.109 29.588	35.192 35.875	1.00 64.18 1.00 64.16	CCCC
ATOM ATOM	7584 7585	CB CG	PHE (	C	5 5	34.305 33.052	29.767	35.060	1.00 64.16	cccc
ATOM	7586		PHE		5	32.599	28.758	34.217	1.00 63.85	cccc
ATOM	7587	CD2	PHE	С	5	32.325	30.952	35.132	1.00 63.49	cccc
MOTA	7588		PHE		5	31.434	28.928	33.459	1.00 63.49	CCCC
ATOM	7589			C	5 5	31.167 30.721	31.128	34.381 33.543	1.00 62.44 1.00 62.75	CCCC
ATOM ATOM	7590 7591	CZ C	PHE PHE	C	5	36.706	30.114	36.224	1.00 62.75	cccc
MOTA	7592	ŏ	PHE		5	37.847	29.818	35.948	1.00 62.27	CCCC
ATOM	7593	N	ASN	С	6	36.374	30.676	37.413	1.00 61.97	CCCC
MOTA	7594	CA	ASN		6	37.333	30.795	38.502	1.00 61.39 1.00 62.39	CCCC
ATOM	7595	CB	ASN		6 6	38.446 39.768	31.761 31.063	38.143 37.997	1.00 62.39	CCCC
ATOM ATOM	7596 7597	CG OD1	ASN ASN		6	40.753	31.659	37.577	1.00 66.31	CCCC
ATOM	7598		ASN		6	39.800	29.782	38.351	1.00 63.97	CCCC
ATOM	7599	С	ASN		6	36.689	31.218	39.802	1.00 60.24	CCCC
ATOM	7600	0	ASN		6	35.568	31.698	39.817	1.00 59.53	CCCC
ATOM	7601	N	ASP		7 7	37.427 36.926	31.058 31.355	40.891 42.225	1.00 59.13 1.00 58.64	CCCC
ATOM ATOM	7602 7603	CA CB	ASP ASP		7	37.801	30.634	43.242	1.00 60.94	CCCC
ATOM	7604	CG	ASP		7	38.281	29.278	42.744	1.00 63.70	CCCC
MOTA	7605		ASP		7	37.450	28.351	42.612	1.00 65.36	CCCC
ATOM	7606		ASP		7	39.496	29.142	42.482 42.622	1.00 65.10 1.00 57.40	CCCC
ATOM ATOM	7607 7608	C O	ASP ASP		7 7	36.834 37.698	32.824 33.625	42.022	1.00 57.40	cccc
ATOM	7609	N	CYS		8	35.774	33.174	43.355	1.00 55.14	CCCC
ATOM	7610	CA	CYS		8	35.605	34.539	43.851	1.00 52.22	CCCC
MOTA	7611	С	CYS		8	36.187	34.346	45.230	1.00 50.80 1.00 50.27	CCCC
ATOM	7612 7613	O CB	CYS		8 8	35.965 34.113	33.313 34.940	45.841 43.960	1.00 50.27	cccc
MOTA MOTA	7613	SG	CYS		8	33.038	33.852	42.986	1.00 49.51	cccc
MOTA	7615	N-	- PRO	С	9	36.984	35.299		1.00 50.41	cccc
MOTA	7616	CD	PRO		9	37.318	36.653	45.246	1.00 50.06 1.00 50.37	CCCC
MOTA	7617	CA	PRO		9 9	37.515 38.395	35.065 36.279	47.066 47.299	1.00 50.37 1.00 50.17	cccc
MOTA MOTA	7618 7619	CB CG	PRO PRO		9	37.663	37.352	46.536	1.00 50.61	CCCC
ATOM	7620	C	PRO		9	36.339	34.995	48.040		CCCC
ATOM	7621	0	PRO		9	35.255	35.508	_	1.00 52.45	CCCC
ATOM	7622	N	ALA		10	36.548	34.355			CCCC
MOTA MOTA	7623 7624	CA CB			10 10	35.500 35.954	34.202 33.184			CCCC
ATOM	7625		ALA		10	35.096	35.515		_	CCCC
MOTA	7626	0	ALA		10	34.941	36.555			CCCC
ATOM	7627	N	PHE		15	28.959	35.713			CCCC
ATOM	7628 7629				15 15	28.106 28.737	36.653 37.022			CCCC
ATOM ATOM	7630				15	28.169				CCCC
ATOM	7631		1 PHE		15	28.261				CCCC
MOTA	7632		2 PHE		15	27.541				CCCC
ATOM	7633		1 PHE		15	27.737 27.013				CCCC
ATOM ATOM	7634 7635		2 PHE		15 15	27.013				CCCC
ATOM	7636		PHE		15	26.760			1.00 29.40	CCCC
ATOM	7637		PHE		15	25.702	36.583	47.162		CCCC
ATOM	7638		CYS		16	26.808				CCCC
ATOM	7639				16 16	25.601 25.038				CCCC
MOTA MOTA	7640 7641		CYS		16 16	25.038				CCCC
ATOM	7642				16	25.882			1.00 34.52	CCCC
ATOM	7643	3 SG	CYS	C	16	26.845				CCCC
MOTA	7644		PHE		17	23.965				CCCC
MOTA	7645	5 CF	A PHE		17	23.299	33.395	49.452	. 1.00 01.04	3300

ATOM	7646	CB	PHE C	17	22.052	34.217	49.688	1.00 31.14	cccc
ATOM	7647	CG	PHE C	17	22.313	35.689	49.754	1.00 31.68	CCCC
ATOM	7648		PHE C	17 ·	22.958	36.244	50.855	1.00 30.48	CCCC
MOTA	7649		PHE C	17	21.920	36.526	48.705 50.915	1.00 31.89 1.00 31.85	CCCC
ATOM	7650		PHE C	17 17	23.209 22.167	37.612 37.899	48.753	1.00 31.39	CCCC
ATOM ATOM	7651 7652	CE Z	PHE C	17	22.812	38.443	49.860	1.00 32.41	CCCC
ATOM	7653	C	PHE C	17	22.944	31.921	49.316	1.00 31.44	CCCC
ATOM	7654	0	PHE C	17	23.409	31.108	50.096	1.00 33.08	cccc
ATOM	7655		HIS C	18	22.134	31.562	48.328	1.00 31.83	CCCC
ATOM	7656	CA	HIS C	18	21.749	30.157	48.156	1.00 31.99	CCCC
ATOM	7657	CB	HIS C	18	20.241	30.036	48.283 49.569	1.00 30.55 1.00 30.79	CCCC
ATOM	7658	CG	HIS C	18 18	19.722 19.125	30.582 31.760	49.569	1.00 30.79	cccc
ATOM ATOM	7659 7660		HIS C	18	19.850	29.913	50.764	1.00 31.85	CCCC
ATOM	7661	CE1		18	19.352	30.653	51.737	1.00 31.95	cccc
ATOM	7662		HIS C	18	18.904	31.780	51.215	1.00 33.38	CCCC
ATOM	7663	С	HIS C	18	22.233	29.529	46.855	1.00 32.17	CCCC
MOTA	7664	0	HIS C	18	21.456	29.235	45.952	1.00 32.41	CCCC
MOTA	7665	N	GLY C	19	23.538	29.315	46.799	1.00 32.15 1.00 33.69	CCCC
ATOM	7666	CA	GLY C	19 19	24.177 25.649	28.747 29.100	45.634 45.722	1.00 33.63	CCCC
ATOM ATOM	7667 7668	0	GLY C	19	26.039	29.879	46.583	1.00 35.32	CCCC
ATOM	7669	N	THR C	20	26.469	28.552	44.837	1.00 34.37	CCCC
ATOM	7670	CA	THR C	20	27.893	28.828	44.880	1.00 35.44	CCCC
ATOM	7671	CB	THR C	20	28.698	27.542	44.536	1.00 36.00	. CCCC
MOTA	7672	OG1	THR C	20	28.494	27.191	43.164	1.00 36.59	CCCC
ATOM	7673		THR C	20	28.237	26.381	45.388	1.00 34.12	CCCC
ATOM	7674	C	THR C	20	28.285	29.958 30.027	43.927 42.818	1.00 35.99 1.00 35.16	CCCC
ATOM	7675	O N	THR C	20 21	27.778 29.174	30.850	44.369	1.00 33.10	CCCC
ATOM ATOM	7676 7677	CA	CYS C	21	29.635	31.951	43.521	1.00 39.97	CCCC
ATOM	7678	C	CYS C	21	30.714	31.329	42.634	1.00 39.29	CCCC
ATOM	7679	0	CYS C	21	31.274	30.276	42.967	1.00 38.76	CCCC
MOTA	7680	CB	CYS C	21	30.310	33.083	44.327	1.00 42.93	CCCC
ATOM	7681	SG	CYS C	21	32.092	32.711	44.382	1.00 51.71	CCCC
ATOM	7682	И	ARG C	22	31.007	31.994 31.558	41.521 40.586	1.00 38.22 1.00 38.53	CCCC
ATOM ATOM	7683 7684	CA CB	ARG C	22 22	32.037 31.547	30.451	39.634	1.00 36.28	CCCC
ATOM	7685	CG	ARG C	22	30.524	30.882	38.584	1.00 34.69	CCCC
ATOM	7686	CD	ARG C	22	30.235	29.771	37.592	1.00 31.53	CCCC
ATOM	7687	NE	ARG C	22	28.953	29.941	36.915	1.00 30.15	CCCC
ATOM	7688	CZ	ARG C	22	28.467	29.085	36.024	1.00 29.47	CCCC
ATOM	7689		ARG C	22	29.155	28.007 29.299	35.702 35.464	1.00 30.20 1.00 29.91	CCCC
MOTA	7690 7691	NH2 C	ARG C	22 22	32.417	32.774	39.779	1.00 39.93	CCCC
ATOM ATOM	7692	0	ARG C	22	31.575	33.387	39.128	1.00 40.37	CCCC
ATOM	7693	N	PHE C	23	33.687	33.137	39.837	1.00 41.89	CCCC
ATOM	7694	CA	PHE C	23	34.157	34.288	39.099	1.00 43.12	CCCC
ATOM	7695	CB	PHE C	23	35.447	34.830	39.682	1.00 44.73	CCCC
ATOM	7696	CG	PHE C	23	35.744	36.231	39.254	1.00 45.88 1.00 45.83	CCCC
ATOM	7697		PHE C	23 23	35.140 36.623	37.302 36.479	39.899 38.209	1.00 45.83	CCCC
ATOM ATOM	7698 7699		PHE C	23	35.406	38.591	39.518	1.00 47.09	CCCC
ATOM	7700		PHE C	23	36.899	37.768	37.816	1.00 47.99	CCCC
ATOM	7701	ÇZ	PHE C	23	36.289	38.830	38.473	1.00 49.21	CCCC
ATOM	7702	C	PHE C	23	34.418	33.857	37.686	1.00 43.02	CCCC
MOTA	7703	0	PHE C	23	34.905	32.758	37.446	1.00 43.03	CCCC
ATOM	7704	N	LEU C		34.097	34.727	36.743 35.353	1.00 43.62 1.00 43.72	CCCC
ATOM	7705	CA	LEU C		34.310 32.968	34.394 34.208	34.643	1.00 41.82	CCCC
ATOM ATOM	7706 7707	CB CG	LEU C		31.888	35.252	34.879	1.00 37.99	CCCC
ATOM	7708		LEU C		31.730	36.100	33.629	1.00 37.86	CCCC
ATOM	7709		LEU C		30.596	34.550	35.217	1.00 36.79	CCCC
MOTA	7710	С	LEU C	24	35.160	35.436	34.655	1.00 44.55	CCCC
ATOM	7711	0	LEU C		34.808	36.619	34.577	1.00 43.92	CCCC
MOTA	7712	N	VAL C		36.309	34.966	34.182	1.00 45.31 1.00 45.23	CCCC
MOTA	7713	CA	VAL C		37.269	35.783 34.899	33.468 32.952	1.00 45.23	cccc
MOTA	7714 7715	CB CG1	VAL C		38.403 38.828	34.899	34.048	1.00 45.57	CCCC
ATOM ATOM	7716		VAL C		37.942	34.132	31.735	1.00 45.48	cccc
ATOM	7717	C	VAL C		36.455	36.301	32.303	1.00 45.13	CCCC
ATOM	7718	0	VAL C	25	35.396	35.751	32.017	1.00 46.74	CCCC
ATOM	7719	N	GLN C		36.914	37.341	31.628	1.00 43.53	CCCC
ATOM	7720	CA	GLN C	26	36.139	37.842	30.506	1.00 44.15	

MOTA	7721	СВ	GLN (	С	26	35.888	36.705	29.517	1.00 44.93	CCCC
MOTA	7722		GLN (		26	35.304	37.119	28.186	1.00 47.86	CCCC
MOTA	7723		GLN (		26	35.303	35.972	27.191	1.00 47.82	cccc
MOTA	7724		GLN (		26	36.337	35.348	26.947	1.00 45.96	CCCC
MOTA	7725		GLN (		26	34.144 34.817	35.693	26.612 31.047	1.00 48.12	CCCC
ATOM ATOM	7726 7727	С 0	GLN (		26 26	33.844	38.366 37.628	31.132	1.00 44.37	CCCC
ATOM	7728	N	GLU (		27	34.808	39.652	31.386	1.00 43.29	CCCC
ATOM	7729	CA	GLU (		27	33.672	40.365	31.974	1.00 42.33	CCCC
ATOM	7730	СВ	GLU (	С	27	32.418	39.492	32.026	1.00 41.66	CCCC
ATOM	7731	CG	GLU (		27	31.565	39.550	30.779	1.00 41.86	CCCC
ATOM	7732	CD	GLU (		27	30.817	40.857	30.657	1.00 42.36	CCCC
ATOM	7733		GLU (		27	31.279	41.750	29.919	1.00 42.76 1.00 41.83	CCCC
ATOM ATOM	7734 7735	CE2	GLU (		27 2 <b>7</b>	29.760 34.140	40.992 40.697	31.308 33.391	1.00 41.65	CCCC
ATOM	7736	Ö	GLU		27	33.778	41.727	33.973	1.00 42.25	cccc
ATOM	7737	N	ASP		28	34.970	39.806	33.922	1.00 41.81	CCCC
ATOM	7738	CA	ASP	C	28	35.546	39.959	35.239	1.00 42.46	CCCC
MOTA	7739	CB	ASP ·		28	36.771	40.868	35.160	1.00 42.86	CCCC
ATOM	7740	CG	ASP		28	37.676	40.712	36.353	1.00 43.91	CCCC
ATOM	7741		ASP		28	37.490	41.416	37.373	1.00 44.29 1.00 45.95	CCCC
ATOM ATOM	7742 7743	C	ASP ASP		28 28	38.571 34.561	39.850 40.506	36.274 36.255	1.00 42.76	CCCC
ATOM	7744	0	ASP		28	34.576	41.690	36.581	1.00 43.77	cccc
MOTA	7745	N	LYS		29	33.698	39.627	36.744	1.00 42.62	CCCC
ATOM	7746	CA	LYS		29	32.692	39.975	37.735	1.00 42.39	CCCC
ATOM	7747	CB	LYS	С	29	31.422	40.518	37.077	1.00 43.18	CCCC
MOTA	7748	CG	LYS		29	31.547	41.804	36.289	1.00 45.25	CCCC
ATOM	7749	CD	LYS		29	30.199	42.100	35.634	1.00 48.61	CCCC
ATOM	7750	CE	LYS		29	30.248	43.248	34.620 35.231	1.00 51.19 1.00 54.01	CCCC
ATOM ATOM	7751 7752	NZ C	LYS LYS		29 29	30.293 32.336	44.615 38.670	38.417	1.00 34.01	CCCC
ATOM	7753	Ö	LYS		29	32.592	37.593	37.882	1.00 43.03	CCCC
ATOM	7754	N	PRO		30	31.744	38.744	39.611	1.00 40.51	CCCC
ATOM	7755	CD	PRO	С	30	31.661	39.928	40.474	1.00 39.36	CCCC
ATOM	7756	ÇA	PRO		30	31.355	37.535	40.341	1.00 40.04	CCCC
ATOM	7757	CB	PRO		30	31.237	38.018	41.779	1.00 39.97	cccc
ATOM ATOM	7758 7759	CG C	PRO PRO		30 30	31.999 30.009	39.341 37.045	41.787 39.800	1.00 40.65	CCCC
ATOM	7760	0	PRO		30	29.214	37.836	39.290	1.00 39.78	cccc
ATOM	7761	N	ALA		31	29.751	35.747	39.913	1.00 39.84	CCCC
MOTA	7762	CA	ALA		31	28.501	35.180	39.423	1.00 39.59	CCCC
MOTA	7763	CB	ALA	С	31	28.703	34.607	38.025	1.00 39.53	CCCC
MOTA	7764	C	ALA		31	28.000	34.093	40.357	1.00 39.39	CCCC
MOTA	7765	0	ALA		31	28.749	33.581		1.00 38.33	CCCC
ATOM ATOM	7766 7767	N CA	CYS		32 32	26.729 26.159	33.737 32.699	40.220 41.062	1.00 38.58 1.00 38.54	CCCC
ATOM	7768	C	CYS		32	25.702	31.470	40.301	1.00 38.10	CCCC
MOTA	7769	Ō	CYS		32	25.576	31.484	39.083	1.00 39.61	cccc
MOTA	7770	CB	CYS		32	24.973	33.244	41.852	1.00 39.23	CCCC
MOTA	7771	SG	CYS		32	25.445	34.531	43.035	1.00 39.81	cccc
ATOM	7772	N	VAL		33	25.476	30.398	41.046	1.00 37.16	CCCC
MOTA MOTA	7773 7774	CA CB	VAL VAL		33 33	24.982 26.085	29.153 28.166	40.502 40.179	1.00 36.74 1.00 37.91	CCCC
ATOM	7775		VAL		33	25.630	27.251	39.052	1.00 37.31	CCCC
ATOM	7776		VAL		33	27.354	28.899	39.821	1.00 40.98	CCCC
ATOM	7777	С	VAL		33	24.192	28.622	41.672	1.00 36.99	CCCC
MOTA	7778	0	VAL		33	24.714	27.881	42.505	1.00 35.68	cccc
MOTA	7779	N	CYS		34	22.932	29.050	41.724	1.00 37.63	CCCC
ATOM	7780	CA	CYS		34	21.982	28.706	42.772	1.00 37.29 1.00 37.92	CCCC
ATOM ATOM	7781 7782	0	CYS		34 34	21.754 21.891	27.214 26.420	42.964 42.028	1.00 37.92	CCCC
MOTA	7783	CB	CYS		34	20.632	29.381	42.495	1.00 36.45	cccc
ATOM	7784	SG	CYS		34	20.697	31.151	42.056	1.00 34.53	CCCC
ATOM	7785	N	HIS		35	21.414	26.848	44.198	1.00 37.72	cccc
ATOM	7786	CA	HIS		35	21.127	25.465	44.553	1.00 37.55	CCCC
MOTA	7787	CB	HIS		35	21.179	25.274	46.070	1.00 38.60	CCCC
ATOM	7788	CG	HIS		35	22.533	25.492	46.660	1.00 40.49	CCCC
ATOM	7789 7790		HIS		35 35	23.740	24.971	46.338 47.728	1.00 42.51 1.00 41.71	CCCC
ATOM ATOM	7791		HIS		35 35	22.752 24.035	26.334 26.321	47.728	1.00 41.71	CCCC
MOTA	7792		HIS		35	24.657	25.501	47.213	1.00 43.94	CCCC
ATOM	7793	C	HIS		35	19.714	25.224	44.067	1.00 36.66	CCCC
ATOM	7794	0	HIS	С	35	19.023	26.164	43.679	1.00 37.55	CCCC
ATOM	7795	N	SER	С	36	19.275	23.976	44.086	1.00 35.16	CCCC

	7706	C7	CED	_	36	17.932	23.688	43.632	1.00 34.25	CCCC
ATOM	7796	CA	SER SER		36 36	17.632	22.189	43.753	1.00 35.91	CCCC
ATOM	7797	CB				16.478	21.832	43.006	1.00 37.74	CCCC
ATOM	7798	OG	SER		36		24.502	44.460	1.00 32.49	CCCC
ATOM	7799	C	SER		36	16.946	24.773	45.638	1.00 32.77	CCCC
ATOM	7800	0	SER		36	17.171	24.773	43.821	1.00 31.05	CCCC
ATOM	7801	N	GLY		37	15.865		44.503	1.00 30.28	CCCC
ATOM	7802	CA	GLY		37	14.849	25.686		1.00 29.12	CCCC
MOTA	7803	С	GLY		37	15.137	27.160	44.710	1.00 29.78	CCCC
ATOM	7804	0	GLY		37	14.430	27.816	45.475	1.00 26.51	CCCC
MOTA	7805	И	TYR		38	16.156	27.696	44.050	1.00 25.27	CCCC
ATOM	7806	CA	TYR		38	16.460	29.105	44.225	1.00 23.27	CCCC
ATOM	7807	CB	TYR		38	17.636	29.270	45.178	1.00 25.03	CCCC
ATOM	7808	CG	TYR		38	17.217	29.186	46.625		CCCC
ATOM	7809		TYR		38	16.941	27.962	47.223	1.00 25.69	cccc
ATOM	7810		TYR		38	16.536	27.895	48.545	1.00 24.56	CCCC
ATOM	7811		TYR		38	17.071	30.337	47.395	1.00 23.62	CCCC
ATOM	7812	CE2	TYR		38	16.666	30.272	48.707	1.00 21.16	cccc
MOTA	7813	CZ	TYR	С	38	16.403	29.057	49.269	1.00 22.85	CCCC
ATOM	7814	OH	TYR	С	38	15.986	28.997	50.561	1.00 28.03	
MOTA	7815	С	TYR	С	38	16.706	29.909	42.958	1.00 24.47	CCCC
ATOM	7816	0	TYR	С	38	17.149	29.377	41.943	1.00 23.96	CCCC
MOTA	7817	N	LAV	С	39	16.419	31.204	43.035	1.00 23.22	CCCC
ATOM	7818	CA	VAL	С	39	16.587	32.089	41.903	1.00 22.54	CCCC
ATOM	7819	CB	VAL	С	39	15.304	32.173	41.108	1.00 24.28	CCCC
ATOM	7820	CG1	VAL	С	39	15.057	30.858	40.382	1.00 24.52	CCCC
ATOM	7821	CG2	VAL	С	39	14.163	32.489	42.046	1.00 24.09	CCCC
ATOM	7822	С	VAL	С	39	16.937	33.471	42.372	1.00 21.71	CCCC
ATOM	7823	0	VAL	С	39	16.728	33.784	43.524	1.00 19.43	CCCC
ATOM	7824	N	GLY	С	40	17.453	34.293	41.458	1.00 22.88	CCCC
ATOM	7825	CA	GLY	С	40	17.848	35.662	41.777	1.00 23.65	CCCC
ATOM	7826	C	GLY	С	40	19.269	35.969	41.334	1.00 23.36	CCCC
ATOM	7827	0	GLY	С	40	20.012	35.059	40.994	1.00 23.97	CCCC
ATOM	7828	N	ALA	С	41	19.666	37.235	41.331	1.00 23.51	CCCC
ATOM	7829	CA	ALA		41	21.028	37.568	40.918	1.00 24.55	CCCC
MOTA	7830	CB	ALA		41	21.191	39.045	40.777	1.00 22.88	CCCC
ATOM	7831	С	ALA		41	22.040	37.039	41.918	1.00 26.52	CCCC
ATOM	7832	ō	ALA		41	23.110	36.583	41.538	1.00 26.10	cccc
ATOM	7833	N	ARG		42	21.700	37.120	43.202	1.00 28.04	CCCC
ATOM	7834	CA	ARG		42	22.570	36.626	44.264	1.00 29.38	CCCC
ATOM	7835	CB	ARG		42	22.719	37.683	45.354	1.00 30.22	CCCC
ATOM	7836	CG	ARG		42	23.261	38.991	44.863	1.00 32.25	CCCC
ATOM	7837	CD	ARG		42	23.716	39.837	46.012	1.00 34.01	CCCC
ATOM	7838	NE	ARG		42	24.760	39.152	46.756	1.00 36.59	CCCC
ATOM	7839	CZ	ARG		42	25.345	39.637	47.846	1.00 39.60	CCCC
ATOM	7840				42	24.996	40.823	48.336	1.00 39.34	CCCC
ATOM	7841		2 ARG		42	26.282	38.928	48.455	1.00 41.46	CCCC
ATOM	7842	C	ARG		42	21.950	35.358	44.859	1.00 30.75	CCCC
ATOM	7843	o				22.253	34.960	45.992	1.00 29.00	CCCC
ATOM	7844	N	CYS		.43	21.071	34.734	44.078	1.00 31.59	CCCC
ATOM	7845	CA	CYS		43	20.388	33.533	44.519	1.00 31.67	CCCC
	7846	C	CYS		43	19.691	33.851	45.845	1.00 30.47	cccc
MOTA MOTA	7847	0	CYS		43	19.516	32.989	46.688	1.00 30.87	CCCC
	7848	СВ	CYS		43	21.415	32.406	44.693	1.00 33.67	CCCC
ATOM	7849	SG	CYS		43	22.245	31.900	43.142	1.00 35.97	CCCC
ATOM	7850		GLU		44	19.274	35.100		1.00 28.62	CCCC
ATOM		N			44	18.644	35.539	47.236	1.00 27.65	CCCC
ATOM	7851	CA	GLU		44	18.649	37.067		1.00 27.94	CCCC
ATOM	7852	CB				17.654	37.782			cccc
ATOM	7853	CG				18.223	38.152			CCCC
ATOM	7854	CD				17.608	39.001			CCCC
ATOM	7855		1 GLU			19.274	37.609			CCCC
ATOM	7856		2 GLU							CCCC
ATOM	7857	C	GLU			. 17.233	35.050 34.827			CCCC
MOTA	7858	0	GLU			16.876				CCCC
ATOM	7859	N	HIS		_	16.426	34.863			CCCC
MOTA	7860	CA				15.048				CCCC
ATOM	7861	CB				14.154	35.232			CCCC
ATOM	7862	CG				14.143				CCCC
ATOM	7863		2 HIS		_	14.292				CCCC
ATOM	7864		1 HIS			13.977				CCCC
<b>ATOM</b>	7865		1 HIS			14.028				CCCC
ATOM	7866		2 HIS		_	14.217				CCCC
ATOM	7867	C	HIS			14.730				cccc
ATOM	7868	0	HIS			15.292				CCCC
MOTA	7869		AL			13.815				CCCC
ATOM	7870	CA	AL	A C	46	13.369	31.174	41.300	. 1.00 27.05	

ATOM	7871	CB	ALA	С	46	12.573	30.862	48.617	1.00 26.72		CCCC
ATOM	7872	С	ALA	С	46	12.483	31.113	46.146	1.00 29.11		CCCC
ATOM	7873	0	ALA	С	46	11.818	32.088	45.796	1.00 28.88		CCCC
MOTA	7874	N	ASP	С	47	12.497	29.971	45.482	1.00 31.39		CCCC
ATOM	7875	CA	ASP		47	11.698	29.788	44.297	1.00 31.85		CCCC
MOTA	7876	CB	ASP		47	12.383	28.824	43.349	1.00 34.50		CCCC
MOTA	7877	CG	ASP		47	11.510	28.474	42.189	1.00 40.36		CCCC
ATOM	7878		ASP		47	11.914	27.640	41.348	1.00 43.44		CCCC
ATOM	7879		ASP		47	10.403	29.050	42.121	1.00 42.78		CCCC
ATOM	7880	C	ASP		47	10.343	29.242	44.686	1.00 31.94		CCCC
ATOM	7881	0	ASP		47	10.051	28.079	44.438	1.00 31.72		CCCC
ATOM ATOM	7882 7883.	N CA	LEU		48 48	9.530 8.172	30.099 29.782	45.300 45.763	1.00 33.00 1.00 31.94		CCCC
ATOM	7884	CB	LEU		48	7.446	31.070	46.134	1.00 31.34		CCCC
ATOM	7885	CG	LEU		48	8.121	32.029	47.111	1.00 28.75		CCCC
ATOM	7886		LEU		48	7.561	33.427	46.906	1.00 27.01		CCCC
ATOM	7887		LEU		48	7.923	31.536	48.543	1.00 27.60		CCCC
MOTA	7888	С	LEU		48	7.332	29.044	44.726	1.00 33.31		CCCC
ATOM	7889	0	LEU	С	48	6.376	28.351	45.075	1.00 31.57		CCCC
MOTA	7890	N	LEU	С	49	7.674	29.226	43.448	1.00 36.09		CCCC
MOTA	7891	CA	LEU	С	49	6.960	28.557	42.354	1.00 37.20		CCCC
ATOM	7892	CB	LEU	C	49	7.205	29.265	41.017	1.00 36.37		CCCC
ATOM	7893	CG	LEU	С	49	6.324	30.471	40.690	1.00 37.51	·	CCCC
ATOM	7894		LEU		49	6.568	30.873	39.235	1.00 36.96		CCCC
MOTA	7895		LEU		49	4.843	30.119	40.905	1.00 37.77		CCCC
ATOM	7896	С	LEU		49	7.360	27.092	42.226	1.00 37.37		CCCC
ATOM	7897	0	LEU		49	7.446	26.553	41.127	1.00 36.40	•	CCCC
MOTA	7898	N	ALA		50	7.611	26.463	43.368	1.00 38.35		CCCC
MOTA MOTA	7899 7900	CA CB	ALA ALA		50 50	7.986 9.505	25.059 24.911	43.407 43.383	1.00 38.78		CCCC
ATOM	7900	C	ALA		50	7.417	24.911	43.363	1.00 37.49		CCCC
ATOM	7902	0	ALA		50	7.352	25.135	45.718	1.00 37.51		CCCC
ATOM	7903		ALA		50	7.048	23.254	44.591	1.00 41.05		CCCC
ATOM	7904	CB	ALA		4	-34.635		2.839	1.00 61.86		DDDD
ATOM	7905	C	ALA		4	-36.531		4.378	1.00 62.84		DDDD
MOTA	7906	0	ALA	D	4	-36.008	100.445	4.700	1.00 62.68		DDDD
MOTA	7907	N	ALA	D	4	-36.461	103.671	3.206	1.00 63.00		DDDD
ATOM	7908	CA	ALA	D	4	-36.128	102.228	3.094	1.00 62.57		DDDD
MOTA	7909	N	PHE		5	-37.470		5.105	1.00 63.32		DDDD
MOTA	7910	CA	PHE		5	-37.959		6.365	1.00 64.01		DDDD
ATOM	7911	CB	PHE		5	-37.182		7.550	1.00 63.94		DDDD
ATOM	7912	CG	PHE		5	-35.772		7.216	1.00 62.91		DDDD
ATOM	7913		PHE		5	-35.507		6.624	1.00 62.30		DDDD
ATOM ATOM	7914 7915		PHE		5 5	-34.720 	101.676	7.444 6.260			DDDD DDDD
ATOM	7916	CE2			5		102.016	7.081	1.00 61.91		DDDD
ATOM	7917	CZ	PHE		5		103.245	6.486	1.00 61.97		DDDD
MOTA	7918	C	PHE		5		101.865	6.555	1.00 64.50		DDDD
ATOM	7919	0	PHE	_	5		103.023	6.647	1.00 65.23		DDDD
ATOM	7920	N	ASN		6	-40.273	100.836	6.619	1.00 65.73		DDDD
ATOM	7921	CA	ASN	D	6	-41.700	101.068	6.820	1.00 67.62		DDDD
MOTA	7922	CB	ASN		6		100.103	5.968	1.00 68.77		DDDD
ATOM	7923	CG	ASN		6		100.624	5.683	1.00 69.99		DDDD
MOTA	7924		ASN		6		101.150	6.569	1.00 70.33		DDDD
ATOM	7925		ASN		6		100.468	4.440	1.00 70.38		DDDD
ATOM	7926	C	ASN		6		100.891	8.300	1.00 68.31		DDDD
ATOM	7927	O	ASN ASP		6 7		100.200	9.042 8.725	1.00 69.04 1.00 68.38		DDDD
ATOM ATOM	7928 7929	N CA	ASE		7		101.506	10.117	1.00 68.66		DDDD
ATOM	7930	CB	ASE		7		102.265	10.305	1.00 70.42		DDDD
ATOM	7931	CG	ASE		7		103.524	9.447	1.00 72.69		DDDD
ATOM	7932		ASE		7		104.185	9.372	1.00 73.23		DDDD
MOTA	7933		ASE		7		103.854	8.849	1.00 73.84		DDDD
ATOM	7934	C	ASE		7		99.977	10.546	1.00 67.69		DDDD
ATOM	7935	0	ASE		7		99.348	10.073	1.00 67.62		DDDD
MOTA	7936	И	CYS		8		99.469	11.456	1.00 66.50		DDDD
ATOM	7937	CA	CYS		8		98.100	11.952	1.00 65.12		DDDD
MOTA	7938	С	CYS		8		97.710	12.428	1.00 65.18		DDDD
ATOM	7939	0	CYS		8		98.534	12.945	1.00 66.13		DDDD
MOTA	7940	CB	CYS		8		97.868	13.138	1.00 63.66		DDDD
ATOM	7941	SG	CYS		8		98.320	12.933	1.00 62.59		DDDD
ATOM	7942	И	PRO		9		96.437	12.239	1.00 65.35		DDDD
MOTA	7943 7944	CD		D (	9		95.621 95.854	11.175 12.648	1.00 65.79 1.00 65.24		DDDD DDDD
ATOM ATOM	7944	CA CB		ם סכ	9 9			11.490	1.00 65.24		DDDD
AION	1943	CB	EK	ט י	9	-40.026	29.22	±4.450	1.00 00.00		2000

ATOM	7946	CG	PRO I	9	-45.182	94.383	11.142	1.00 65.58	DDDD
ATOM	7947	C	PRO I		-45.887	95.077	13.937	1.00 64.73	DDDD
ATOM	7948	0	PRO I		-44.818	94.480	14.049	1.00 65.69	DDDD
ATOM	7949	N	ASP I		-46.783	95.075	14.916	1.00 64.02	DDDD
ATOM	7950	CA	ASP I		-46.477	94.357	16.154	1.00 63.35	DDDD
ATOM	7951	CB	ASP I		-46.805	95.227	17.374	1.00 63.52	DDDD
ATOM	7952	CG	ASP I		-45.791	96.346	17.587	1.00 63.84	DDDD
ATOM	7953		ASP I		-44.598	96.019	17.786	1.00 63.84	DDDD
ATOM	7954		ASP I		-46.182	97.540	17.556	1.00 62.22	DDDD
					-47.166	93.010	16.278	1.00 62.32	DDDD
MOTA	7955 7956	C	ASP I		-46.501	91.988	16.434	1.00 61.69	DDDD
MOTA		0	ASP I				21.358	1.00 40.28	DDDD
ATOM	7957	N	ALA I		-44.083	96.155		1.00 41.63	DDDD
ATOM	7958	CA	ALA I		-43.042	96.118	22.371	1.00 42.81	DDDD
ATOM	7959	CB	ALA I		-43.189	94.860	23.211		DDDD
ATOM	7960	С	ALA I		-41.643	96.173	21.762	1.00 41.94	
ATOM	7961	0	ALA I		-41.107	97.251	21.494	1.00 42.01	DDDD
ATOM	7962	И		D 15	-41.065	94.995	21.555	1.00 41.96	DDDD
ATOM	7963	CA	PHE 1		-39.724	94.823	20.987	1.00 42.51	DDDD
MOTA	7964	CB	PHE		-39.780	94.825	19.457	1.00 40.47	DDDD
MOTA	7965	CG	PHE	D 15	-38.576	94.194	18.824	1.00 40.12	DDDD
ATOM	7966	CD1	PHE 1	D 15	-38.268	92.861	19.076	1.00 38.87	DDDD
ATOM	7967	CD2	PHE	D 15	-37.730	94.931	18.008	1.00 39.81	DDDD
MOTA	7968	CE1	PHE !	D 15	-37.138	92.273	18.530	1.00 38.70	DDDD
MOTA	7969	CE2	PHE :	D 15	-36.593	94.346	17.454	1.00 39.66	DDDD
ATOM	7970	CZ	PHE	D 15	-36.298	93.015	17.718	1.00 38.40	DDDD
ATOM	7971	С	PHE	D 15	-38.629	95.799	21.454	1.00 42.76	DDDD
ATOM	7972	Ō	PHE :		-37.955	95.545	22.449	1.00 41.63	DDDD
ATOM	7973	N	CYS		-38.439	96.897	20.727	1.00 43.11	DDDD
ATOM	7974	CA	CYS		-37.422	97.882	21.092	1.00 43.09	DDDD
MOTA	7975	C	CYS		-37.726	98.509	22.433	1.00 43.17	DDDD
ATOM	7976	ō	CYS		-38.712	99.223	22.579	1.00 45.16	DDDD
ATOM	7977	СВ	CYS		-37.358	98.988	20.053	1.00 42.41	DDDD
ATOM	7978	SG	CYS		-37.161	98.348	18.378	1.00 43.90	DDDD
ATOM	7979	N	PHE		-36.872	98.264	23.412	1.00 42.34	DDDD
ATOM	7980	CA		D 17	-37.103	98.821	24.728	1.00 41.62	DDDD
ATOM	7981	CB	PHE		-36.285	98.051	25.775	1.00 41.58	DDDD
	7982	CG	PHE		-36.744	96.619	25.773	1.00 40.76	· DDDD
ATOM	7983	CD1			-38.086	96.329	26.243	1.00 39.81	DDDD
MOTA	7984	CD1			-35.832	95.564	25.936	1.00 40.59	DDDD
MOTA	7985	CE1	PHE		-38.512	95.016	26.440	1.00 38.28	DDDD
ATOM ATOM	7986	CE2			-36.252	94.244	26.134	1.00 39.10	DDDD
ATOM	7987	CZ	PHE		-37.592	93.974	26.384	1.00 38.60	DDDD
ATOM	7988	C		D 17		100.318	24.801	1.00 41.40	DDDD
ATOM	7989	Ö	PHE			101.107	25.066	1.00 41.86	DDDD
ATOM	7990	N		D 18			24.534	1.00 41.60	DDDD
ATOM	7991	CA		D 18	-35.184		24.618	1.00 42.59	DDDD
ATOM	7992	CB		D 18		102.247	25.544	1.00 42.71	DDDD
ATOM	7993	CG	HIS			101.740	26.930	1.00 43.56	DDDD
ATOM	7994		HIS			100.563	27.521	1.00 43.57	DDDD
ATOM	7995		HIS			102.461	27.865	1.00 42.66	DDDD
ATOM	7996		HIS			101.751	28.972	1.00 42.75	DDDD
ATOM	7997		HIS			100.594	28.790	1.00 43.73	DDDD
ATOM	7998	C	HIS			102.784	23.277	1.00 43.84	DDDD
ATOM	7999					103.442	23.093	1.00 44.67	DDDD
		0	HIS			102.628	22.343	1.00 44.22	DDDD
ATOM	8000	N	GLY			103.206	21.030	1.00 43.28	DDDD
ATOM	8001	CA	GTX					1.00 43.79	DDDD
MOTA	8002	C	GLY			103.050	20.289	1.00 43.79	DDDD
ATOM	8003	0	GLY			102.953	20.912	1.00 43.84	DDDD
ATOM	8004	N	THR			103.003	18.965		סססס
MOTA	8005	CA	THR			102.864	18.152	1.00 45.46	
ATOM	8006	CB	THR			104.226	17.574	1.00 44.39	DDDD
ATOM	8007		THR			104.734	16.775	1.00 41.89	DDDD
MOTA	8008		THR			105.216	18.703	1.00 43.43	DDDD
MOTA	8009	С	THR			101.870	17.020	1.00 47.01	DDDD
MOTA	8010	0	THR			101.798	16.496	1.00 47.29	DDDD
ATOM	8011	N	CYS			101.106	16.653	1.00 48.39	DDDD
ATOM	8012	CA	CYS			100.108	15.585	1.00 49.96	DDDD
MOTA	8013	С	CYS	D 21	-39.003	100.634	14.173	1.00 49.48	DDDD
ATOM	8014	0	CYS	D 21	-39.941	101.393	13.938	1.00 49.79	DDDD
ATOM	8015	CB	CYS	D 21	-39.671	98.925	15.842	1.00 52.62	DDDD
ATOM	8016	SG	CYS	D 21	-39.564	97.579	14.602	1.00 58.10	DDDD
ATOM	8017	N	ARG			100.202	13.240	1.00 48.61	DDDD
ATOM	8018	CA	ARG			100.555	11.830	. 1.00 47.71	DDDD
ATOM	8019	CB	ARG		-37.055	101.399	11.404	1.00 46.79	DDDD
ATOM	8020	CG	ARG		-35.745	100.840	11.927	1.00 46.29	DDDD

MOTA	8021	CD	ARG	D	22	-31 5	30	101.149	11.055	1.00	45 60	DDDD
MOTA	8022		ARG		22			102.572	10.840	1.00		DDDD
ATOM	8023	CZ	ARG	D	22	-33.1	L O 4	103.094	10.585	1.00	44.97	DDDD
ATOM	8024	NH1	ARG	D	22	-32.0	32	102.312	10.527	1.00	42.98	DDDD
ATOM	8025	NH2	ARG	D	22	-32.9	978	104.395	10.357	1.00	44.24	DDDD
ATOM	8026		ARG		22	-38.2		99.220	11.101	1.00		DDDD
ATOM	8027		ARG		22	-37.9		98.194	11.703	1.00		DDDD
ATOM	8028	N	PHE	D	23	-38.5	512	99.219	9.813	1.00	47.84	DDDD
ATOM	8029	CA	PHE	D	23	-38.4	150	97.984	9.052	1.00	47.77	DDDD
ATOM	8030	CB	PHE	D	23	-39.8	308	97.623	8.448	1.00	46.28	DDDD
ATOM	8031	CG		D	23	-39.9		96.191	8.005		45.15	DDDD
											43.70	
ATOM	8032	CD1			23	-40.2		95.196	8.899			DDDD
ATOM	8033	CD2	PHE	D	23	-39.	552	95.822	6.708	1.00	44.63	DDDD
MOTA	8034	CE1	PHE	D	23	-40.3	332	93.856	8.510	1.00	42.41	DDDD
MOTA	8035	CE2	PHE	D	23	-39.	587	94.477	6.310	1.00	42.96	DDDD
ATOM	8036	CZ	PHE		23	-39.	977	93.497	7.217	1 00	42.08	DDDD
									7.932		48.84	DDDD
ATOM	8037	С	PHE		23	-37.		98.159				
MOTA	8038	0	PHE	Ð	23	-37.	192	98.651	6.862		50.27	DDDD
ATOM	8039	N	LEU	D	24	-36.3	200	97.786	8.186	1.00	49.34	DDDD
ATOM	8040	CA	LEU	D	24	-35.	172	97.878	7.167	1.00	48.95	DDDD
ATOM	8041	CB	LEU		24	-33.		97.197	7.666		48.24	DDDD
MOTA	8042	CG	LEU		24	-33.		97.708	8.974		48.39	DDDD
MOTA	8043	CD1	LEU	D	24	-32.	131	96.809	9.383		48.28	DDDD
MOTA	8044	CD2	LEU	D	24	-32.	815	99.141	8.801	0.01	48.29	DDDD
MOTA	8045	С	LEU	D	24	-35.	789	97.078	6.031	1.00	49.23	DDDD
ATOM	8046	0	LEU		24	-36.		95.893	6.199		49.32	DDDD
ATOM	8047	N	VAL		25	-36.		97.697	4.885		49.83	DDDD
MOTA	8048	CA	VAL	D	25	-36.	675	96.921	3.816	1.00	50.80	DDDD
ATOM	8049	CB	VAL	D	25	-37.	599	97.770	2.922	1.00	51.13	DDDD
ATOM	8050	CG1	VAL	D	25	-38.	602	96.852	2.244	1.00	50.38	DDDD
ATOM	8051		VAL		25	-38.		98.830	3.744		51.29	DDDD
MOTA	8052	С	VAL		25	-35.		96.186	2.924		50.84	DDDD
ATOM	8053	0	$\mathbf{VAL}$	D	25	-36.	064	95.233	2.239	1.00	50.72	DDDD
ATOM	8054	N	GLN	D	26	-34.	430	96.626	2.915	1.00	50.88	DDDD
MOTA	8055	CA	GLN	D	26	-33.	417	95.939	2.122	1.00	51.87	DDDD
MOTA	8056	CB	GLN		26	-32.		96.382	2.541		52.86	DDDD
MOTA	8057	CG	GLN		26	-31.		97.807	3.095		55.11	DDDD
ATOM	8058	CD	GLN	D	26	-31.	212	98.792	2.174	1.00	56.21	DDDD
ATOM	8059	OE1	GLN	D	26	-30.	065	98.577	1.783	1.00	55.67	DDDD
ATOM	8060	NE2	GLN	D	26	-31.	883	99.887	1.841	1.00	56.99	DDDD
ATOM	8061	C	GLN		26	-33.		94.468	2.496		52.24	DDDD
											51.59	DDDD
MOTA	8062	0	GLN		26	-33.		93.601	1.628			
MOTA	8063	N	GLU	D	27	-33.	717	94.212	3.805		52.42	DDDD
MOTA	8064	CA	GLU	D	27	-33.	985	92.874	4.344	1.00	51.75	DDDD
MOTA	8065	CB	GLU	D.	727	···~ -33.	163	92.590	5.609	1.00-	50:37	<ul> <li>DDDD</li> </ul>
ATOM	8066	CG	GLU		27	-31.		91.906	5.389	1.00	48.88	DDDD
MOTA	8067	CD	GLU		27	-30.		92.846	4.844		49.77	DDDD
MOTA	8068		GLU		27	-31.		94.048	4.697		50.48	DDDD
ATOM	8069	OE2	GLU	D	27	-29.		92.388	4.565		49.08	DDDD
ATOM	8070	С	GLU	D	27	-35.	458	92.813	4.724	1.00	51.86	DDDD
MOTA	8071	0	GLU	D	27	-36.	161	93.824	4.701	1.00	51.53	DDDD
ATOM	8072	N	ASP		28	-35.		91.618	5.068		52.50	DDDD
												DDDD
ATOM	8073	CA	ASP		28	-37.		91.427	5.492		52.19	
ATOM	8074	CB	ASP		28	-37.		90.168	4.851		51.93	DDDD
MOTA	8075	CG	ASP	D	28	-37.	902	90.219	3.336	0.01	51.88	DDDD
MOTA	8076	OD1	ASP	D	28	-38.	522	91.140	2.764	0.01	51.81	DDDD
MOTA	8077		ASP		28	-37.		89.338	2.718		51.82	DDDD
									7.004		51.14	DDDD
ATOM	8078	C	ASP		28	-37.		91.259				
MOTA	8079	0	ASP	D	28	-37.		90.362	7.597		51.65	DDDD
MOTA	8080	N	LYS	D	29	-36.	404	92.137	7.608	1.00	48.84	סססס
MOTA	8081	CA	LYS	D	29	-36.	156	92.127	9.045	1.00	46.35	DDDD
ATOM	8082	СВ	LYS		29	-34.			9.320	1 00	46.60	DDDD
ATOM	8083	CG	LYS		29	-34.			10.794		46.46	DDDD
ATOM	8084	CD	LYS		29	-32.			10.984		46.58	DDDD
MOTA	8085	CE	LYS	D	29	-32.	467	90.030	10.451	0.01	46.67	DDDD
ATOM	8086	NZ	LYS		29	-33			11.152		46.80	DDDD
ATOM	8087	C	LYS		29	-36.			9.712		43.97	DDDD
MOTA	8088	0	LYS		29	-36			9.150		44.60	DDDD
MOTA	8089	N	PRC		30	-36			10.916		41.36	DDDD
MOTA	8090	CD	PRC	D	30	-37	. 856	92.349	11.393	1.00	39.54	DDDD
ATOM	8091	CA	PRO		30	-37			11.653		38.54	DDDD
					30	-38			12.324		37.64	DDDD
ATOM	8092	CB	PRC									
MOTA	8093	CG	PRC		30	-38			12.618		37.84	DDDD
ATOM	8094	Ç	PRC	D	30	-36			12.640	1.00	36.91	DDDD
ATOM	8095	0	PRO	D	30	-35	. 395	93.969	12.971	1.00	36.27	DDDD
			- ,	-								

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ATOM	8096	N	ALA	D	31	-35.954	96.142	13.089	1.00	35.67	DDDD
ATOM	8097	CA	ALA		31	-34.869	96.476	14.013	1.00	35.77	DDDD
ATOM	8098	CB	ALA	Ð	31	-33.565	96.666	13.242	1.00		DDDD
ATOM	8099	С	ALA	D	31	-35.188	97.734	14.810	1.00		DDDD
ATOM	8100	0	ALA	D	31	-36.335	98.160	14.853	1.00		DDDD
ATOM	8101	N	CYS	D	32	-34.177	98.332	15.434	1.00		DDDD
ATOM	8102	CA	CYS		32	-34.392	99.536	16.236	1.00		DDDD
ATOM	8103	С	CYS		32	-33.398		15.984	1.00		DDDD
ATOM	8104	0	CYS		32	-32.479		15.171	1.00		DDDD
MOTA	8105	CB	CYS		32	-34.322	99.234	17.739	1.00		DDDD DDDD
ATOM	8106	SG	CYS		32	-35.216	97.773	18.330	1.00		
ATOM	8107	N	VAL		33		101.730	16.726	1.00		DDDD
ATOM	8108	CA	VAL		33	-32.819		16.756 15.896	1.00		DDDD
ATOM	8109	CB	VAL		33	-33.410			1.00		DDDD
ATOM	8110	CG1	VAL		33		104.057 103.912	14.503 15.819	1.00		DDDD
ATOM	8111	CG2			33		103.312	18.219	1.00		DDDD
ATOM	8112	С	VAL VAL		33 33		103.732	18.626	1.00		DDDD
ATOM	8113	0			34		103.732	19.002	1.00		DDDD
ATOM	8114	n CA	CYS CYS		34		103.335	20.448	1.00		DDDD
ATOM ATOM	8115 8116	C	CYS		34		104.804	20.842	1.00		DDDD
ATOM	8117	0	CYS		34		105.659	20.139	1.00		DDDD
ATOM	8118	СВ	CYS		34		102.688	21.115	1.00		DDDD
ATOM	8119	SG	CYS		34		100.940	20.736	1.00		DDDD
ATOM	8120	N	HIS		35		105.090	21.982	1.00	31.99	DDDD
ATOM	8121	CA	HIS		35		106.441	22.490	1.00		DDDD
ATOM	8122	CB	HIS		35		106.560	23.665	1.00	34.97	DDDD
ATOM	8123	CG		D.	35	-34.930	106.346	23.301	1.00	39.32	DDDD
ATOM	8124	CD2	HIS	D	35	-35.508	106.023	22.123	1.00	41.13	DDDD
MOTA	8125	ND1	HIS	D	35	-35.956	106.465	24.212	1.00	43.75	DDDD
ATOM	8126	CE1	HIS	D	35	-37.108	106.224	23.611	1.00		DDDD
ATOM	8127	NE2	HIS	D	35	-36.863	105.953	22.341	1.00		DDDD
MOTA	8128	С	HIS	D	35	-31.131	106.678	22.960	1.00		DDDD
ATOM	8129	0	HIS	D	35		105.727	23.264	1.00		DDDD
ATOM	8130	N	SER		36		107.936	23.018	1.00		DDDD
MOTA	8131	CA	SER		36		108.243	23.464	1.00		DDDD
ATOM	8132	CB	SER		36		109.750	23.623	1.00		DDDD
ATOM	8133	OG	SER		36		110.097	23.816	1.00		DDDD
ATOM	8134	C	SER		36		107.542	24.797	1.00		DDDD DDDD
MOTA	8135	0	SER		36		107.514	25.657 24.951	1.00		DDDD
ATOM	8136	N	GLY		37		106.950	26.189	1.00		DDDD
MOTA	8137	CA	GLY GLY		37 37		104.770	26.274	1.00		DDDD
ATOM ATOM	8138 8139	C 0	GLY		37		104.175	27.326	1.00		DDDD
ATOM	8140	N	TYR"		.38		104.174	25 188			DDDD
ATOM	8141	CA	TYR		38		102.755	25.232	1.00		DDDD
ATOM	8142	CB	TYR		38		102.518	25.330	1.00		DDDD
ATOM	8143	CG	TYR		38	-30.758	102.986	26.653	1.00	24.39	DDDD
ATOM	8144	CD1	TYR		38	-30.986	104.336	26.891	1.00		DDDD
ATOM	8145		TYR		38		104.786	28.134	1.00	20.76	DDDD
ATOM	8146	CD2	TYR	D	38	-30.956	102.087	27.705	1.00	23.77	DDDD
MOTA	8147	CE2	TYR	D	38	-31.360	102.530	28.961		21.70	DDDD
ATOM	8148	CZ	TYR	D	38	-31.566	103.885	29.167		21.27	DDDD
MOTA	8149	OH	TYR	D	38		104.346	30.414	1.00		.DDDD
ATOM	8150	С	TYR		38		102.000	24.059	1.00		DDDD
ATOM	8151	0	TYR		38		102.594	23.016		28.76	DDDD
MOTA	8152	N	VAL		39		100.693	24.254	1.00		DDDD DDDD
MOTA	8153	CA	VAL		39	-27.308		23.256 23.577	1.00	25.40	DDDD
ATOM	8154	CB	VAL		39	-25.839	99.539 100.832	23.577		22.22	DDDD
ATOM	8155		VAL		39 39	-25.033		24.914		24.10	DDDD
MOTA MOTA	8156 8157	C	VAL S		39	-28.031		23.206		26.30	DDDD
ATOM	8158	Ö	VAL		39	-29.021		23.886		26.19	DDDD
ATOM	8159	N	GLY		40	-27.509		22.387		28.19	DDDD
ATOM	8160	CA	GLY		40	-28.103		22.227		28.49	DDDD
ATOM	8161	C.	GLY		40	-28.930		20.963		26.73	DDDD
MOTA	8162	ō	GLY		40	-29.371		20.419		25.74	DDDD
ATOM	8163	N	ALA		41	-29.130		20.484		25.85	DDDD
MOTA	8164	CA	ALA		41	-29.944		19.299		25.30	DDDD
ATOM	8165	CB	ALA		41	-30.054	93.300	18.976		23.83	DDDD
ATOM	8166	C	ALA		41	-31.330	95.337	19.578		26.55	DDDD
ATOM	8167	0	ALA	D	41	-31.809		18.825		27.74	DDDD
ATOM	8168	И	ARG	D	42	-31.970		20.663		25.08	DDDD
ATOM	8169	CA	ARG		42	-33.289		21.006		24.69	DDDD
ATOM	8170	CB	ARG	D	42	-34.101	94.358	21.737	1.00	25.09	DDDD

ATOM	8171	CG	ARG	D	42	-34.511	93.171	20.885	1.00 25.75	ממממ
ATOM	8172	CD	ARG		42	-35.414	92.230	21.667	1.00 23.97	DDDD
MOTA	8173	NE	ARG		42	-36.649		22.075	1.00 25.02	DDDD
ATOM ATOM	8174 8175	CZ NH1	ARG		42 42	-37.610 -37.499		22.788 23.183	1.00 24.10 1.00 24.72	DDDD DDDD
ATOM	8176	NH2			42	-38.682		23.115	1.00 23.56	DDDD
ATOM	8177	С	ARG		42	-33.225		21.872	1.00 26.60	DDDD
MOTA	8178	0	ARG		42	-34.244		22.429	1.00 26.32	DDDD
ATOM	8179	N	CYS		43	-32.029		21.994	1.00 27.93	DDDD
ATOM	8180	CA	CYS		43	-31.803		22.788	1.00 28.44	DDDD
ATOM	8181 8182	C	CYS		43	-32.138		24.272	1.00 28.94	DDDD
ATOM ATOM	8183	O CB	CYS	D	43 43	-32.656 -32.645		24.902 22.229	1.00 29.75 1.00 29.44	DDDD DDDD
ATOM	8184	SG	CYS		43		100.163	20.535	1.00 31.89	DDDD
MOTA	8185	N	GLU	D	44	-31.801	97.160	24.836	1.00 28.19	DDDD
ATOM	8186	CA	GLU		44	-32.140		26.215	1.00 27.95	DDDD
MOTA	8187	CB	GLU		44	-32.474		26.319	1.00 28.73	DDDD
ATOM ATOM	8188 8189	CG CD	GLU GLU	D	44 44	-31.318 -30.924		26.078	1.00 29.74 1.00 31.06	DDDD DDDD
ATOM	8190	OE1		D	44	-30.255		24.618 24.317	1.00 31.00	סססס
ATOM	8191	OE2	GLU		44	-31.256		23.768	1.00 32.32	DDDD
MOTA	8192	C	GLU	D	44	-31.168		27.332	1.00 29.25	ממממ
MOTA	8193	0	GLU		44	-31.562		28.501	1.00 28.76	DDDD
ATOM	8194	N	HIS	D	45	-29.909		26.993	1.00 29.73	DDDD
ATOM ATOM	8195 8196	CA CB	HIS	D	45 45	-28.930 -27.674		28.007 27.829	1.00 30.64 1.00 31.73	DDDD
ATOM	8197	CG	HIS		45	-27.876		28.125	1.00 33.35	מממם
ATOM	8198		HIS		45	-28.799		28.889	1.00 33.51	DDDD
ATOM	8199	ND1	HIS	D	45	-27.056	94.607	27.617	1.00 34.47	DDDD
MOTA	8200		HIS		45	-27.468		28.054	1.00 35.42	DDDD
ATOM	8201		HIS		45	-28.523		28.828	1.00 34.84	DDDD
ATOM ATOM	8202 8203	С 0	HIS HIS		45 45	-28.545	99.342 100.141	28.066 27.216	1.00 31.24 1.00 31.92	DDDD DDDD
ATOM	8204	N	ALA		46	-27.790		29.096	1.00 30.56	DDDD
ATOM	8205	CA	ALA		46		101.055	29.266	1.00 29.92	DDDD
ATOM	8206	CB	ALA	D	46	-27.648	3 101.511	30.679	1.00 28.45	DDDD
ATOM	8207	С	ALA		46		101.176	28.965	1.00 30.86	DDDD
ATOM	8208	0	ALA		46		100.369	29.408	1.00 30.43	DDDD
ATOM ATOM	8209 8210	N CA	ASP ASP		47 47		2 102.185	28.181 27.835	1.00 32.60 1.00 34.26	DDDD DDDD
ATOM	8211	CB	ASP		47		103.631	26.890	1.00 35.61	DDDD
ATOM	8212	CG	ASP	D	47		2 103.805	26.282	1.00 38.50	DDDD
ATOM	8213		ASP		47		3 103.493	26.951	1.00 39.62	DDDD
ATOM	8214		ASP		47		9 104.273	25.128	1.00 41.35	DDDD
ATOM ATOM	8215 8216	С 0	ASP ASP		47 47		3 102.776 5 103.954	29.154- 29.504	1.00 35.13	DDDD DDDD
ATOM	8217	N	LEU		48		101.767	29.894	1.00 33.78	DDDD
ATOM	8218	CA	LEU		48		102.043	31.164	1.00 32.70	DDDD
MOTA	8219	CB	LEU	D	48	-22.12	3 100.776	31.982	1.00 27.98	DDDD
ATOM	8220	CG	LEU		48	-23.35		32.347	1.00 25.69	DDDD
ATOM	8221		LEU		48	-22.91		33.175	1.00 21.92	DDDD
ATOM ATOM	8222 8223	CD7	LEU		48 48		2 100.801 3 102.649	33.096 30.899	1.00 22.85 1.00 35.66	DDDD
ATOM	8224	0	LEU		48		3 103.679	31.471	1.00 37.32	DDDD
ATOM	8225	N	LEU	D	49	-20.21	9 102.011	30.011	1.00 37.42	DDDD
MOTA	8226	CA	LEU		49		8 102.468	29.669		DDDD
ATOM ATOM	8227	CB	LEU		49		8 101.538	28.610	1.00 39.24	DDDD
ATOM	8228 8229	CG	LEU		49 49		8 101.514 0 1 <b>01</b> .702	28.473 29.842	1.00 40.26 1.00 39.79	DDDD DDDD
ATOM	8230		LEU		49		9 100.189	27.831	1.00 40.91	DDDD
ATOM	8231	С	LEU		49		7 103.920	29.190	1.00 39.11	DDDD
ATOM	8232	0	LEU		49		5 104.396	28.678	1.00 39.69	DDDD
ATOM	8233	N	ALA		50		1 104.619	29.360	1.00 39.14	DDDD
ATOM ATOM	8234 8235	CA	ALA		50		3 106.011	28.970	1.00 40.27	DDDD
ATOM	8236	CB C	ALA ALA		50 50		7 106.175 5 106.829	27.876 30.194	1.00 39.93	DDDD
ATOM	8237	Ö	ALA		50		4 106.212	31.201	1.00 42.82	DDDD
ATOM	8238		ALA		50		1 108.076	30.132	1.00 43.78	DDDD
MOTA	8239	Cl			600	3.34		25.873	1.00 63.08	EEEE
ATOM	8240	C2	NAG			3.36		25.936	1.00 64.76	EEEE
ATOM ATOM	8241 8242	N2 C7	NAG NAG		600 600	4.63 5.26		25.409 25.979	1.00 64.32 0.01 64.58	EEEE EEEE
ATOM	8243	07			600	6.02		26.936	0.01 65.02	EEEE
ATOM	8244	C8			600	5.00	0 22.171	25.397	0.01 65.17	EEEE
ATOM	8245	C3	NAG	E	600	2.21		25.118	1.00 66.55	EEEE

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ATOM	8246	03	NAG E 600	2.082	23.048	25.480	1.00 66.72	EEEE
	8247	C4	NAG E 600	0.859	25.125	25.309	1.00 67.41	EEEE
ATOM .				-0.054	24.706	24.261	1.00 73.16	EEEE
ATOM	8248	04	NAG E 600					
ATOM	8249	C5	NAG E 600	1.064	26.643	25.227	1.00 66.32	EEEE
ATOM	8250	05	NAG E 600	2.043	27.056	26.197	1.00 64.73	EEEE
ATOM	8251	C6	NAG E 600	-0.167	27.497	25.460	1.00 65.26	EEEE
ATOM	8252	06	NAG E 600	-1.234	27.113	24.571	1.00 62.45	EEEE
	8253	C1	FUC E 601	-2.518	27.413	25.062	1.00 63.59	EEEE
ATOM							1.00 63.41	EEEE
ATOM	8254	C2	FUC E 601	-2.770	26.805	26.466		
ATOM	8255	02	FUC E 601	-2.306	25.465	26.513	1.00 62.93	EEEE
ATOM	8256	СЗ	FUC E 601	-2.074	27.636	27.547	1.00 63.20	EEEE
ATOM	8257	03	FUC E 601	-2.364	27.114	28.838	1.00 63.11	EEEE
ATOM	8258	C4	FUC E 601	-2.554	29.080	27.435	1.00 63.80	EEEE
			FUC E 601	-3.960	29.127	27.643	1.00 64.70	EEEE
ATOM	8259	04					1.00 63.14	EEEE
MOTA	8260	C5	FUC E 601	-2.219	29.623	26.036		
ATOM	8261	05	FUC E 601	-2.843	28.809	25.016	1.00 63.06	EEEE
MOTA	8262	C6	FUC E 601	-2.694	31.050	25.824	1.00 63.04	EEEE
ATOM	8263	C1	NAG E 602	-1.123	23.895	24.624	1.00 77.21	EEEE
ATOM	8264	C2	NAG E 602	-2.235	23.937	23.560	1.00 79.43	EEEE
		N2	NAG E 602	-2.702	25.296	23.345	1.00 80.26	EEEE
ATOM	8265				25.539	22.588	1.00 81.30	EEEE
ATOM	8266	C7	NAG E 602	-3.773				
MOTA	8267	07	NAG E 602	-3.913	25.080	21.449	1.00 81.39	EEEE
MOTA	8268	C8	NAG E 602	-4.861	26.422	23.178	1.00 81.79	EEEE
ATOM	8269	C3	NAG E 602	-3.385	23.041	24.029	1.00 81.06	EEEE
ATOM	8270	03	NAG E 602	-4.404	22.990	23.040	1.00 82.29	EEEE
ATOM	8271	C4	NAG E 602	-2.878	21.624	24.314	1.00 81.70	EEEE
				-3.943	20.850	24.906	1.00 82.70	· EEEE
ATOM	8272	04	NAG E 602					EEEE
MOTA	8273	Ç5	NAG E 602	-1.662	21.662	25.263	1.00 81.05	
MOTA	8274	05	NAG E 602	-0.647	22.553	24.752	1.00 78.79	EEEE
ATOM	8275	C6	NAG E 602	-1.003	20.307	25.437	1.00 81.76	EEEE
ATOM	8276	06	NAG E 602	0.120	20.397	26.303	1.00 82.42	EEEE
ATOM	8277	C1	MAN E 603	-4.250	19.671	24.251	1.00 84.43	EEEE
				-4.145	18.491	25.216	1.00 85.42	EEEE
ATOM	8278	C2	MAN E 603					EEEE
MOTA	8279	02	MAN E 603	-5.011	18.690	26.330	1.00 86.52	
ATOM	8280	C3	MAN E 603	-4.520	17.200	24.479	1.00 86.25	EEEE
MOTA	8281	03	MAN E 603	-4.553	16.120	25.402	1.00 87.70	EEEE
MOTA	8282	C4	MAN E 603	-5.888	17.335	23.786	1.00 85.54	EEEE
ATOM	8283	04	MAN E 603	-6.111	16.206	22.950	1.00 84.69	EEEE
ATOM	8284	C5	MAN E 603	-5.943	18.618	22.937	1.00 85.35	EEEE
				-5.584	19.768	23.738	1.00 84.36	EEEE
MOTA	8285	05	MAN E 603					EEEE
ATOM	8286	C6	MAN E 603	-7.317	18.897	22.344	1.00 85.76	
MOTA	8287	06	MAN E 603	-8.254	17.876	22.669	1.00 86.26	EEEE
MOTA	8288	C1	NAG E 620	27.632	55.426	28.414	1.00 69.68	EEEE
ATOM	8289	C2	NAG E 620	28.912	54.972	29.133	1.00 71.11	EEEE
ATOM	8290	N2	NAG E-620	29.600	53.991	28.318	1.00 70.40	EEEE
		C7	NAG E 620	30.928	53.943	28.310	1.00 70.33	EEEE
ATOM	8291					27.789	1.00 69.88	EEEE
MOTA	8292	07	NAG E 620	31.626	54.815			
MOTA	8293	C8	NAG E 620	31.581	52.741	28.977	1.00 71.08	EEEE
MOTA	8294	СЗ	NAG E 620	28.605	54.378	30.511	1.00 72.85	EEEE
ATOM	8295	03	NAG E 620	29.823	54.153	31.213	1.00 73.12	EEEE
ATOM	8296	C4	NAG E 620	27.717	55.332	31.315	1.00 73.73	EEEE
ATOM	8297	04	NAG E 620	27.348	54.734	32.548	1.00 73.23	EEEE
ATOM	8298	C5	NAG E 620	26.467	55.687	30.510	1.00 74.20	EEEE
		05	NAG E 620	26.856	56.295	29.254	1.00 72.73	EEEE
ATOM	8299					31.258	1.00 77.17	EEEE
ATOM	8300	C6	NAG E 620	25.579	56.683		1.00 77.17	EEEE
MOTA	8301	06	NAG E 620	24.735	57.415	30.340		
ATOM	8302	C1	FUC E 621	25.275	58.672	30.017	1.00 80.24	EEEE
ATOM	8303	C2	FUC E 621	24.642	59.198	28.724	1.00 80.63	EEEE
ATOM	8304	02	FUC E 621	24.754	58.219	27.700	1.00 79.45	EEEE
ATOM	8305	C3	FUC E 621	23.169	59.531	28.983	1.00 81.18	EEEE
ATOM	8306	03	FUC E 621	22.560	60.028	27.798	1.00 81.07	EEEE
					60.567	30.116	1.00 80.91	EEEE
ATOM	8307	C4	FUC E 621	23.066				EEEE
ATOM	8308	04	FUC E 621	23.639	61.806		1.00 79.97	
MOTA	8309	C5	FUC E 621	23.779		31.378	1.00 80.47	EEEE
MOTA	8310	05	FUC E 621	25.138	59.634	31.075	1.00 80.31	EEEE
ATOM	8311	C6	FUC E 621	23.871	61.111	32.454	1.00 81.14	EEEE
ATOM	8312	C1	NAG E 650	20.995	47.355		1.00 39.69	EEEE
							1.00 39.58	EEEE
ATOM	8313	C2	NAG E 650	21.191	46.736			EEEE
MOTA	8314	N2	NAG E 650	21.896	45.480		1.00 37.17	
ATOM	8315	C7	NAG E 650	21.234	44.328	_		EEEE
MOTA	8316	07	NAG E 650	20.019	44.242	51.950		EEEE
ATOM	8317	C8	NAG E 650	22.059	43.082	51.494	1.00 33.58	EEEE
ATOM	8318	C3	NAG E 650	21.994	47.706		1.00 41.62	EEEE
ATOM	8319	03	NAG E 650	22.100	47.188			EEEE
			NAG E 650	21.311				EEEE
ATOM	8320	C4	144G E 690	21.311	49.086	50.752	1.00 44.00	

ATOM	8321	04	NAG E 650	22.194	50.057	50.140	1.00 51.20	EEEE
ATOM	8322	C5	NAG E 650	20.897	49.575	52.129	1.00 42.23	EEEE
ATOM	8323	05	NAG E 650	20.204	48.534	52.848	1.00 40.85	EEEE
ATOM	8324	C6	NAG E 650	19.949	50.764	52.045	1.00 40.87	EEEE
ATOM	8325	06	NAG E 650	18.588	50.357	52.031	1.00 37.93	EEEE
ATOM	8326	C1	NAG E 651	22.092	50.201	48.767	1.00 58.07	EEEE
MOTA	8327	C2	NAG E 651	22.546	51.592	48.362	1.00 60.82	EEEE
ATOM	8328	N2	NAG E 651	21.739	52.586	49.043	1.00 61.05	EEEE
ATOM	8329	C7	NAG E 651	22.132	53.056	50.223	1.00 62.43	EEEE
MOTA	8330	07	NAG E 651	22.490	52.325	51.143	1.00 62.46	EEEE
ATOM	8331	C8	NAG E 651	22.146	54.564	50.413	1.00 63.07	EEEE
ATOM	8332	C3	NAG E 651	22.400	51.711	46.846	1.00 63.52	EEEE
ATOM	8333	03	NAG E 651	22.885	52.966	46.410	1.00 64.41	EEEE
ATOM	8334	C4	NAG E 651	23.167	50.596	46.124	1.00 65.17	EEEE
ATOM	8335	04	NAG E 651	22.815	50.640	44.730	1.00 71.18	EEEE
ATOM	8336	C5	NAG E 651	22.803	49.213	46.702	1.00 62.45	EEEE
ATOM	8337	05	NAG E 651	22.928	49.215	48.139	1.00 59.89	EEEE
ATOM	8338	C6	NAG E 651	23.677	48.079	46.194	1.00 61.54	EEEE
ATOM	8339	06	NAG E 651	24.548	48.506	45.158	1.00 61.52	EEEE
ATOM	8340	C1	MAN E 652	23.830	50.878	43.818	1.00 76.95	EEEE
MOTA	8341	C2	MAN E 652	23.311	50.612	42.411	1.00 79.82	EEEE
MOTA	8342	02	MAN E 652	22.190	51.446	42.147	1.00 80.25	EEEE
MOTA	8343	C3	MAN E 652	24.420	50.889	41.395	1.00 81.93	EEEE
MOTA	8344	03	MAN E 652	23.887	50.776	40.059	1.00 86.43	EEEE
ATOM	8345	C4	MAN E 652	24.999	52.290	41.589	1.00 80.44	EEEE
ATOM	8346	04	MAN E 652	26.159	52.427	40.785	1.00 80.06	EEEE
			MAN E 652					
ATOM	8347	C5		25.364	52.548	43.059	1.00 79.37	EEEE
ATOM	8348	05	MAN E 652	24.243	52.249	43.924	1.00 78.08	EEEE
ATOM	8349	C6	MAN E 652	25.733	53.995	43.289	1.00 78.98	EEEE
ATOM	8350	06	MAN E 652	25.951	54.664	42.055	1.00 79.18	EEEE
ATOM .	8351	C1	MAN E 653	24.165	49.604	39.333	1.00 89.37	EEEE
ATOM	8352	C2	MAN E 653	23.547	48.355	39.998	1.00 89.99	EEEE
ATOM	8353	02	MAN E 653	23.284	47.357	39.023	1.00 89.77	EEEE
MOTA							1.00 90.42	
	8354	Ç3	MAN E 653	24.435	47.775	41.113		EEEE
MOTA	8355	03	MAN E 653	23.984	46.469	41.439	1.00 90.84	EEEE
ATOM	8356	C4	MAN E 653	25.915	47.711	40.714	1.00 90.37	EEEE
ATOM	8357	04	MAN E 653	26.697	47.394	41.856	1.00 90.30	EEEE
ATOM	8358	C5	MAN E 653	26.384	49.048	40.139	1.00 90.34	EEEE
							1.00 90.42	EEEE
MOTA	8359	05	MAN E 653	25.552	49.429	39.028		
ATOM	8360	C6	MAN E 653	27.811	48.988	39.623	1.00 91.14	EEEE
ATOM	8361	06	MAN E 653	27.849	48.711	38.228	1.00 90.99	EEEE
ATOM	8362	C1	NAG E 660	4.986	55.813	65.817	1.00 76.82	EEEE
ATOM	8363	C2	NAG E 660	5.852	54.872	66.680	1.00 79.66	EEEE
MOTA	8364	N2	NAG E 660	6.912	54.279	65.884	1.00 81.51	EEEE
ATOM	8365	C7	NAG E 660	8.183	54.620	66.094	1.00 83.46	EEEE
MOTA	8366	07	NAG E 660		54.907		1.00 83.00	EEEE
				. 8.630		67.208		
MOTA	8367	C8	NAG E 660	9.100	54.650	64.880	1.00 84.57	EEEE
ATOM	8368	C3	NAG E 660	4.982	53.771	67.293	1.00 81.36	EEEE
MOTA	8369	03	NAG E 660	5. <b>7</b> 73	52.930	68.125	1.00 81.07	EEEE
ATOM	8370	C4	NAG E 660	3.887	54.443	68.111	1.00 80.97	EEEE
MOTA	8371						1.00 81.45	EEEE
		04	NAG E 660	3.075	53.466	68.791		
MOTA	8372	C5	NAG E 660	3.037	55.336	67.197	1.00 80.01	EEEE
MOTA	8373	05	NAG E 660	3.874	56.345	66.575	1.00 78.08	EEEE
ATOM	8374	C6	NAG E 660	1.935	56.078	67.949	1.00 80.66	EEEE
MOTA	8375	06	NAG E 660	2.382	56.450	69.277	1.00 81.56	EEEE
MOTA	8376	C1	FUC E 661	2.162	57.809	69.529	1.00 83.01	EEEE
ATOM	8377	C2	FUC E 661	1.515	58.025	70.915	1.00 83.27	EEEE
ATOM	8378	02	FUC E 661	0.523	57.034	71.137	1.00 83.08	EEEE
ATOM			FUC E 661			72.062		EEEE
	8379	C3		2.535	57.975		1.00 83.42	
ATOM	8380	03	FUC E 661	1.919	58.429	73.261	1.00 82.46	EEEE
ATOM	8381	C4	FUC E 661	3.755	58.847	71.754	1.00 83.51	EEEE
ATOM	8382	04	FUC E 661	3 <b>.377</b>	60.219	71.739	1.00 82.94	EEEE
ATOM	8383	C5	FUC E 661	4.337	58.444	70.395	1.00 83.10	EEEE
								EEEE
ATOM	8384	05	FUC E 661	3.338	58.606	69.364	1.00 83.72	
ATOM	8385	C6	FUC E 661	5.535	59.285	69.993	1.00 84.09	EEEE
ATOM	8386	C1	NAG E 662	3.409	53.339	70.130	1.00 81.79	EEEE
MOTA	8387	C2	NAG E 662	2.169	53.283	71.016	1.00 82.25	EEEE
ATOM	8388	N2	NAG E 662	1.303	54.416	70.752	1.00 81.79	EEEE
MOTA	8389	C7	NAG E 662	0.247	54.265	69.955	1.00 82.12	EEEE
MOTA	8390	07	NAG E 662	0.328	53.787	68.819	1.00 81.04	EEEE
ATOM	8391	C8	NAG E 662				1.00 82.34	EEEE
				-1.107	54.694	70.504		
ATOM	8392	C3	NAG E 662	2.646	53.274	72.470	1.00 82.69	EEEE
ATOM	8393	03	NAG E 662	1.532	53.208	73.351	1.00 83.35	EEEE
ATOM	8394	C4	NAG E 662	3.583	52.070	72.700	1.00 82.98	EEEE
ATOM	8395	04	NAG E 662	4.153	52.155	74.002	1.00 83.11	EEEE
	,							

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ATOM	8396	C5	NAG E 662	4.714	52.036	71.640	1.00 82.89	EEEE
ATOM	8397	05	NAG E 662	4.175	52.148	70.302	1.00 82.41	EEEE
MOTA	8398	C6	NAG E 662	5.531	50.760	71.664	1.00 81.82	EEEE
ATOM	8399	06	NAG E 662	5.993	50.428	70.362	1.00 78.25 1.00 55.44	EEEE FFFF
ATOM ATOM	8400	C1 C2	NAG F 600 NAG F 600	-7.741 -8.036	106.957	19.564 20.128	1.00 55.44	FFFF
ATOM	8401 8402	N2	NAG F 600		108.330	19.363	1.00 57.74	FFFF
ATOM	8403	C7	NAG F 600	-10.071		19.985	0.01 57.58	FFFF
ATOM	8404	07	NAG F 600	-11.088		20.377	0.01 58.16	FFFF
ATOM	8405	C8	NAG F 600	-9.910	111.128	20.204	0.01 58.35	FFFF
ATOM	8406	C3	NAG F 600		109.205	20.102	1.00 61.23	FFFF
ATOM	8407	03	NAG F 600		110.423	20.786	1.00 59.74	FFFF
ATOM	8408	C4 O4	NAG F 600 NAG F 600		108.488	20.768 20.467	1.00 64.86 1.00 73.84	FFFF FFFF
ATOM ATOM	8409 8410	C5	NAG F 600		107.033	20.276	1.00 62.65	FFFF
ATOM	8411	05	NAG F 600		106.342	20.344	1.00 59.47	FFFF
ATOM	8412	С6	NAG F 600	-4.476	106.206	21.118	1.00 62.87	FFFF
ATOM	8413	06	NAG F 600	-3.159	106.803	21.159	1.00 62.49	FFFF
MOTA	8414	Cl	FUC F 601		106.338	22.218	1.00 62.89	FFFF
ATOM	8415	C2	FUC F 601		106.775	23.601	1.00 63.04	FFFF
ATOM	8416	O2 C3	FUC F 601 FUC F 601		108.135	23.564 24.049	1.00 62.92 1.00 63.72	FFFF FFFF
ATOM ATOM	8417 8418	03	FUC F 601		106.257	25.372	1.00 63.72	FFFF
ATOM	8419	C4	FUC F 601		104.417	23.981	1.00 63.60	FFFF
ATOM	8420	04	FUC F 601		104.111	24.943	1.00 64.73	FFFF
MOTA	8421	C5	FUC F 601	-3.176	104.063	22.576	1.00 62.93	FFFF
ATOM	8422	05	FUC F 601		104.930	22.179	1.00 63.26	FFFF
ATOM	8423	C6	FUC F 601		102.635	22.481	1.00 63.68	FFFF
ATOM	8424	C1	NAG F 602		110.150	21.389 21.225	1.00 80.44 1.00 83.73	FFFF FFFF
ATOM ATOM	8425 8426	C2 N2	NAG F 602 NAG F 602		110.395	21.734	1.00 84.84	FFFF
ATOM	8427	C7	NAG F 602		109.394	22.541	1.00 86.37	FFFF
ATOM	8428	07	NAG F 602		109.491	22.120	1.00 87.02	FFFF
ATOM	8429	C8	NAG F 602	-0.898	109.457	24.040	1.00 86.40	FFFF
MOTA	8430	C3	NAG F 602		111.661	21.964	1.00 86.03	FFFF
ATOM	8431	03	NAG F 602		112.114	21.345	1.00 88.19 1.00 86.19	FFFF FFFF
ATOM	8432 8433	C4 O4	NAG F 602 NAG F 602	-2.921	112.840	22.018 23.171	1.00 86.19	·FFFF
MOTA MOTA	8434	C5	NAG F 602		112.356	22.131	1.00 84.89	FFFF
ATOM	8435	05	NAG F 602		111.354	21.139	1.00 82.07	FFFF
ATOM	8436	C6	NAG F 602	-5.394	113.462	21.912	1.00 84.52	FFFF
MOTA	8437	06	NAG F 602		113.174	20.794	1.00 83.97	FFFF
ATOM	8438	C1	MAN F 603		114.664	23.024	1.00 86.83	FFFF FFFF
ATOM	8439	C2	MAN F 603		115.674 115.000	24.164 25.408	1.00 86.47 -1 <del>.</del> 00-86 <del>.</del> 72	· FFFF
ATOM ATOM	8440 8441	O2 C3	MAN F 603		116.748	24.043	1.00 86.86	FFFF
ATOM	8442	03	MAN E 603		117.592	25.188	1.00 87.34	FFFF
ATOM	8443	C4	MAN F 603	0.703	116.105	23.908	1.00 86.17	FFFF
MOTA	8444	04	MAN F 603		117.101	23.569	1.00 84.75	FFFF
MOTA	8445	C5	MAN F 603		115.020	22.825	1.00 86.03	FFFF
ATOM	8446	05	MAN F 603		114.062 114.249	23.074 22.788	1.00 86.77 1.00 84.99	FFFF FFFF
ATOM ATOM	8447 8448	C6 O6	MAN F 603 MAN F 603		113.045	23.530	1.00 84.93	FFFF
ATOM	8449	C1	NAG F 620	-24.886	74.246	7.058	1.00 70.78	FFFF
ATOM	8450	C2	NAG F 620	-25.602		6.593	1.00 72.34	FFFF
ATOM	8451	N2	NAG F 620	-26.347	73.239	5.372	1.00 72.28	FFFF
MOTA	8452	C7	NAG F 620	-27.678	73.250	5.372	1.00 72.47	FFFF
ATOM	8453	07	NAG F 620	-28.361	72.224	5.307	1.00 72.22 1.00 72.36	FFFF
ATOM ATOM	8454 8455	C8 C3	NAG F 620 NAG F 620	-28.348 -26.532	74.612 72.509	5.453 7.716	1.00 72.30	FFFF
ATOM	8456	03	NAG F 620	-27.126	71.267	7.357	1.00 74.59	FFFF
ATOM	8457	C4	NAG F 620	-25.765	72.351	9.038	1.00 73.28	FFFF
ATOM	8458	04	NAG F 620	-26.697	72.157	10.094	1.00 73.78	FFFF
MOTA	8459	C5	NAG F 620	-24.898	73.589	9.346	1.00 72.62	FFFF
ATOM	8460	05	NAG F 620	-24.095	73.941	8.205	1.00 71.49	FFFF FFFF
ATOM	8461	C6	NAG F 620	-23.930	73.355 73.114	10.496 10.020	1.00 73.44 1.00 71.63	FFFF
ATOM ATOM	8462 8463	06 C1	NAG F 620 NAG F 630	-22.610 -7.108		-10.335	1.00 71.03	FFFF
ATOM	8464	C2	NAG F 630	-8.262		-10.049	1.00 70.49	FFFF
ATOM	8465	N2	NAG F 630	-8.750	77.707	-8.699	1.00 72.02	FFFF
ATOM	8466	C7	NAG F 630	-9.852	77.100	-8.256	1.00 73.59	FFFF
MOTA	8467	07	NAG F 630	-10.636	76.502	-8.998	1.00 74.08	FFFF
ATOM	8468	C8	NAG F 630	-10.125	77.162	-6.756	1.00 73.04 1.00 71.39	FFFF FFFF
ATOM	8469	C3	NAG F 630	-7.776 -8.874		-10.208 -10.104	1.00 71.39	FFFF
MOTA	8470	03	NAG F 630	0.0/4	15.129	10.104	1.00 /2.55	

ATOM	8471	C4	NAG F 630	-7.095	75.834	-11.564	1.00 70.84	FFFF
ATOM	8472	04	NAG F 630	-6.513	74.545	-11.617	1.00 71.88	FFFF
ATOM	8473	C5	NAG F 630	-6.008	76.886	-11.784	1.00 70.74	FFFF
ATOM	8474	05	NAG F 630	-6.567	78.211	-11.642	1.00 70.33	FFFF
ATOM	8475	C6	NAG F 630	-5.396	76.805	-13.176	1.00 70.29	FFFF
ATOM	8476	06	NAG F 630	-5.049	75.471	-13.518	1.00 67.90	FFFF
ATOM	8477	C1	NAG F 650	-38.043	85.472	30.384	1.00 41.12	FFFF
ATOM	8478	C2	NAG F 650	-37.172	85.947	29.232	1.00 41.59	FFFF
ATOM	8479	N2	NAG F 650	-37.525	87.291	28.815	1.00 41.42	FFFF
ATOM	8480	C7	NAG F 650	-36.561	88.178	28.592	1.00 43.00	FFFF
ATOM	8481	07	NAG F 650	-35.875	88.181	27.567	1.00 43.36	FFFF
ATOM	8482	C8	NAG F 650	-36.300	89.207	29.683	1.00 42.83	FFFF
MOTA	8483	C3	NAG F 650	-37.365	84.970	28.081	1.00 42.87	FFFF
ATOM	8484	03	NAG F 650	-36.615	85.397	26.951	1.00 41.81	FFFF
MOTA	8485	C4	NAG F 650	-36.953	83.549	28.508	1.00 42.38	FFFF
MOTA	8486	04	NAG F 650	-37.343	82.603	27.478	1.00 44.09	FFFF
MOTA	8487	C5	NAG F 650	-37.637	83.154	29.843	1.00 41.64	FFFF
ATOM	8488	05	NAG F 650	-37.555	84.207	30.835	1.00 41.04	FFFF
MOTA	8489	C6	NAG F 650	-36.945	81.959	30.461	1.00 42.69	FFFF
ATOM	8490	06	NAG F 650	-35.562	82.219	30.684	1.00 41.62	FFFF
ATOM	8491	Cl	NAG F 651	-36.389	82.212	26.547	1.00 45.60	FFFF
ATOM	8492	C2	NAG F 651	-36.726	80.831	25.989	1.00 46.89	FFFF
ATOM	8493	N2	NAG F 651	-36.834	79.861	27.053	1.00 44.50	FFFF
ATOM	8494	C7	NAG F 651	-37.980	79.768	27.709	1.00 44.94	FFFF
ATOM	8495	07	NAG F 651	-38.998	80.363	27.348	1.00 46.13	FFFF
ATOM	8496	C8	NAG F 651	-38.008	78.894	28.949	1.00 43.75	FFFF
ATOM	8497	C3	NAG F 651	-35.649	80.414	24.987	1.00 49.55	FFFF
ATOM	8498	03	NAG F 651	-35.990	79.167	24.401	1.00 49.84	FFFF
MOTA	8499	C4	NAG F 651	-35.513	81.471	23.890	1.00 51.05	FFFF
ATOM	8500	04	NAG F 651	-34.363	81.157	23.080	1.00 56.05	FFFF
MOTA	8501	C5	NAG F 651	-35.354	82.882	24.498	1.00 48.81	FFFF
ATOM	8502	05	NAG F 651	-36.394	83.153	25.468	1.00 46.13	FFFF
ATOM	8503	C6	NAG F 651	-35.439	83.977	23.458	1.00 49.28	FFFF
ATOM	8504	06	NAG F 651	-34.224	84.103	22.732	1.00 50.36	FFFF
ATOM	8505	C1	MAN F 652	-34.601	80.658	21.804	1.00 61.55	FFFF
ATOM	8506	C2	MAN F 652	-33.418	81.033	20.891	1.00 63.25	FFFF
ATOM	8507	02	MAN F 652	-32.204	80.617	21.497	1.00 64.55	FFFF
ATOM	8508	C3	MAN F 652	-33.566	80.361	19.527	1.00 64.97	FFFF
ATOM	8509	03	MAN F 652	-32.452	80.663	18.701	1.00 67.83	FFFF
ATOM	8510	C4	MAN F 652	-33.669	78.858	19.729	1.00 65.65	FFFF
MOTA	8511	04	MAN F 652	-33.797	78.213	18.470	1.00 65.91	FFFF
ATOM	8512	C5	MAN F 652	-34.893	78.570	20.613	1.00 65.89	FFFF
ATOM	8513	05	MAN F 652	-34.735	79.223	21.903	1.00 64.01	FFFF
MOTA	8514	C6	MAN F 652	-35.108	77.082	20.869	1.00 65.63	FFFF
ATOM	8515	06	MAN F 652	-36.414	10.000	20.483	<del>-1.00 66.89</del>	FFFF

# APPENDIX II

REMARK	Struc	tura	o f	the	a phy	siologiaal	dimor of	ECED vo	sidues 1-501	. ri + h	mcr.
REMARK	CODVI	iaht	Gar	ret	t et	al. April	15. 2002	Coord se	sidues 1-501	witu	TGFa
ATOM	1	CB	ALA		1	-11.090		20.747	1.00101.07		AAAA
MOTA	2	С	ALA		1	-9.75		21.107	1.00101.64		AAAA
ATOM	3	0	ALA		1	-10.208		20.427	1.00101.77		AAAA
MOTA	4	N	ALA		1	-10.052			1.00100.56		AAAA
ATOM	5	CA	ALA	Α	1	-10.69		21.757	1.00101.21		AAAA
ATOM	6	N	SER	A	2	-8.45		21.323	1.00101.43		AAAA
ATOM	7	CA	SER	A	2	-7.426	42.532	20.779	1.00100.31		AAAA
MOTA	8	CB	SER	A	2	-6.987	7 43.024	19.394	1.00100.53		AAAA
ATOM	· 9	OG	SER	A	2	-6.094	42.112	18.778	1.00100.86		AAAA
ATOM	10	С	SER		2	-6.237	42.532	21.749	1.00 99.42		AAAA
ATOM	11	0	SER		2	-5.237		21.534	1.00 99.25		AAAA
ATOM	12	N	GLU		3	-6.371		22.814	1.00 97.89		AAAA
ATOM	13	CA	GLU		3	-5.376		23.881	1.00 96.09		AAAA
ATOM	14	CB	GLU		3	-5.739		24.764	1.00 96.83		AAAA
ATOM	15	CG	GLU		3	-7.015			1.00 97.29		AAAA
ATOM	16	CD CE1	GLU		3	-7.450		26.281	1.00 98.15		AAAA
ATOM ATOM	17 18		GLU GLU		3 3	-6.618		27.001	1.00 97.49		AAAA
ATOM	19	C	GLU		3	-8.626 -3.891		26.129	1.00 99.38		AAAA
ATOM	20	0	GLU		3	-3.285			1.00 94.55		AAAA
ATOM	21	N	LYS		4	-3.325		23.155 23.640	1.00 93.89		AAAA AAAA
ATOM	22	CA	LYS		4	-1.910		23.371	1.00 32.20		AAAA
ATOM	23	СВ	LYS		4	-1.094		23.036	1.00 90.43		AAAA
ATOM	24	CG	LYS		4	-0.757		21.561	1.00 90.37		AAAA
ATOM	25	CD	LYS		4	0.118		21.350	1.00 89.90		AAAA
MOTA	26	CE	LYS	Α	4	0.528		19.894	1.00 91.16		AAAA
ATOM	27	NZ	LYS	Α	4	-0.622			1.00 91.43		AAAA
ATOM	28	С	LYS	Α	4	-1.274	39.369	24.596	1.00 87.51		AAAA
ATOM	29	0	LYS	A	4	-0.987	40.042	25.586	1.00 86.32		AAAA
ATOM	30	N	LYS		5	-1.055	38.056	24.515	1.00 84.78		AAAA
MOTA	31	CA	LYS		5	-0.449		25.595	1.00 81.65		AAAA
ATOM	32	CB	LYS		5	0.085		25.048	1.00 83.08		AAAA
ATOM	33	CG	LYS		5	-0.933		24.338	1.00 85.79		AAAA
ATOM	34	CD	LYS		5	-1.864		25.317	1.00 88.18		AAAA
ATOM	35	CE	LYS		5	-2.797		24.586	1.00 91.26		AAAA
ATOM ATOM	36 37	NZ C	LYS LYS		5 5	-3.784		25.497	1.00 94.01		AAAA
ATOM	38	0	LYS		5	0.708 1.742		26.247	1.00 79.78		AAAA
ATOM	39	N	VAL		6	0.546		25.616	1.00 80.18		AAAA
ATOM	40	CA	VAL		6	1.600		27.508 28.217	1.00 76.78 1.00 73.09		AAAA AAAA
ATOM	41	CB	VAL		6	1.065		28.883	1.00 73.03		AAAA
ATOM	42		VAL		6	2.216		29.425	1.00 70.25		AAAA
ATOM	43	CG2	VAL	Α	6	0.259		27.892	1.00 71.85		AAAA
MOTA	44	С	VAL	Α	6	2.199		29.311	1.00 71.83		AAAA
ATOM	45	0	VAL	Α	6	1.539	37.347	29.810	1.00 71.17		AAAA
ATOM	46	N	CYS		7	3.454	38.531	29.669	1.00 69.28	7	AAAA
ATOM	47	CA	CYS		7	4.111		30.725	1.00 66.95	7	AAAA
ATOM	48	С	CYS		7	5.066		31.557	1.00 65.24		AAAA
ATOM	49	0	CYS		7	5.434		31.174	1.00 63.56		AAAA
MOTA	50	CB SG	CYS		7	4.832		30.153	1.00 67.15		AAAA
ATOM ATOM	51 52	N	CYS GLN		7 8	6.261		29.116	1.00 72.31		AAAA
ATOM	53	CA	GLN		8	5.449 6.307		32.709	1.00 64.96 1.00 63.57		AAAA
ATOM	54	CB	GLN		8	6.479		33.686 34.909	1.00 65.87		AAAA AAAA
ATOM	55	CG	GLN		8	5.170		35.483	1.00 67.89		AAAA
ATOM	56	CD	GLN		8	4.265		35.997	1.00 68.67		AAAA
ATOM	57		GLN		8	4.598		36.960	1.00 69.61		AAAA
ATOM	58		GLN		8	3.111		35.354	1.00 68.21		AAAA
ATOM	59	С	GLN		8	7.683		33.241	1.00 61.24		AAAA
ATOM	60	0	GLN	A	8	7.883		32.984	1.00 61.11		AAAA
MOTA	61	N	GLY	Α	9	8.634		33.169	1.00 58.11		AAAA
ATOM	62	CA	$\operatorname{GLY}$	A	9	9.987		32.801	1.00 55.50		AAAA
MOTA	63	C	GLY		9	10.897	38.263	33.936	1.00 53.90		AAA
ATOM	64	0	GLY		9	10.416		34.935	1.00 54.68		AAAA
ATOM	65	N	THR		10	12.200		33.805	1.00 50.80		AAAA
ATOM	66 67	CA	THR		10	13.136		34.849	1.00 47.06		AAAA
ATOM	67 69	CB	THR		10	13.755		34.511	1.00 44.68		AAAA
ATOM ATOM	68 69		THR		10	14.440		33.260	1.00 46.21		AAAA
ATOM	70	CGZ	THR THR		10 10	12.683		34.402	1.00 42.79		AAAA
01.	. 0	J	TUK	^	10	14.256	39.088	35.126	1.00 46.00	,	AAAA

MOTA	71	0	THR	Α.	10	14.445	40.047	34.379	1.00 45.76	AAAA
ATOM	72	N	SER		11	14.986	38.859	36.218	1.00 45.78	AAAA
ATOM	73	CA	SER		11	16.095	39.726	36.627	1.00 45.34	AAAA
ATOM	74	CB	SER		11	15.606	40.778	37.629	1.00 45.79	AAAA
ATOM ATOM	75 76	og	SER		11	14.494	41.502	37.136	1.00 51.46	AAAA
ATOM	76 77	0	SER SER		11	17.237	38.932	37.268	1.00 43.48	AAAA
ATOM	78	N	ASN		11 12	17.754 17.627	39.319	38.313	1.00 45.02	AAAA
ATOM	79	CA	ASN		12	18.694	37.829 36.983	36.642 37.161	1.00 41.56 1.00 39.21	AAAA
ATOM	80	СВ	ASN		12	18.465	35.514	36.787	1.00 39.21	АААА АААА
ATOM	81	CG	ASN		12	17.120	34.987	37.226	1.00 38.78	AAAA
ATOM	82	OD1	ASN		12	16.759	35.058	38.404	1.00 36.86	AAAA
ATOM	83	ND2	ASN	Α.	12	16.372	34.433	36.272	1.00 36.72	AAAA
ATOM	84	С	ASN		12	20.043	37.371	36.587	1.00 39.49	AAAA
ATOM	85	0	ASN		12	21.051	36.742	36.904	1.00 41.32	AAAA
ATOM	86	N	LYS		13	20.064	38.381	35.726	1.00 37.64	AAAA
ATOM ATOM	87	CA	LYS		13	21.299	38.803	35.087	1.00 37.61	AAAA
ATOM	88 89	CB CG	LYS LYS		13	22.117	39.681	36.023	1.00 38.53	AAAA
ATOM	90	CD	LYS		13 13	21.391 22.182	40.962	36.380	1.00 42.75	AAAA
ATOM	91	CE	LYS		13	21.405	41.805 43.057	37.351 37.738	1.00 49.04 1.00 53.41	AAAA
ATOM	92	NZ	LYS		13	21.143	43.955	36.569	1.00 54.41	АААА АААА
ATOM	93	C	LYS		13	22.121	37.604	34.622	1.00 34.41	AAAA
ATOM	94	0	LYS	Α .	13	21.635	36.788	33.829	1.00 38.36	AAAA
ATOM	95	N	LEU	Α.	14	23.353	37.480	35.114	1.00 36.00	AAAA
ATOM	96	CA	LEU	Α.	14	24.212	36.386	34.675	1.00 33.67	AAAA
ATOM	97	CB	LEU		14	25.652	36.865	34.542	1.00 30.77	AAAA
ATOM	98	CG	LEU		14	25.908	37.939	33.490	1.00 30.69	AAAA
ATOM	99		TEA		14	27.380	38.355	33.494	1.00 30.88	AAAA
ATOM ATOM	100 101	CD2	LEU		14	25.524	37.396	32.150	1.00 29.88	AAAA
ATOM	102	0	LEU LEU		14 14	24.175	35.141	35.539	1.00 34.66	AAAA
ATOM	103	N	THR		15	24.997 23.219	34.240 35.075	35.369 36.454	1.00 35.05 1.00 34.78	AAAA
ATOM	104	CA	THR		15	23.091	33.908	37.321	1.00 34.78	АААА АААА
ATOM	105	CB	THR		15	22.265	34.237	38.573	1.00 36.85	AAAA
ATOM	106	OG1	THR		15	23.058	35.030	39.470	1.00 42.94	AAAA
ATOM	107	CG2	THR	Α :	15	21.847	32.986	39.274	1.00 36.85	AAAA
ATOM	108	C	THR		15	22.465	32.691	36.640	1.00 37.58	AAAA
ATOM	109	0	THR		15	21.637	32.816	35.742	1.00 38.68	AAAA
ATOM	110	N	GLN		16	22.880	31.507	37.074	1.00 38.69	AAAA
ATOM ATOM	111 112	CA CB	GLN GLN		16	22.344	30.276	36.534	1.00 38.00	AAAA
ATOM	113	CG	GLN		16 16	23.461 22.971	29.300 28.164	36.195	1.00 36.30	AAAA
ATOM	114	CD	GLN		16	24.077	27.257	35.316 34.844	1.00 35.07 1.00 34.89	AAAA
ATOM	115		GLN		16	25.152	27.717	34.439	1.00 34.89	АДДА АДДА
ATOM	116		GLN		16	23.816	25.954	34.868	1.00 34.43	AAAA
ATOM	117	C	GLN	Α :	16	21.429	29.671	37.596	1.00 40.26	AAAA
ATOM	118	0	GLN		16	21.736	29.722	38.787	1.00 40.86	AAAA
ATOM	119	N	LEU		17	20.306	29.098	37.165	1.00 40.16	AAAA
ATOM	120	CA	LEU		17	19.358	28.511	38.099	1.00 37.59	AAAA
ATOM	121	CB	LEU		17	17.941	28.933	37.722	1.00 35.67	AAAA
ATOM ATOM	122 123	CG	LEU		17	17.775	30.445	37.497	1.00 34.92	AAAA
ATOM	124		LEU		17 17	16.330 18.196	30.779 31.188	37.112	1.00 28.59	AAAA
ATOM	125	C	LEU		17	19.472	26.999	38.761 38.107	1.00 33.96 1.00 39.07	AAAA A <b>A</b> AA
ATOM	126	Ō	LEU		17	18.665	26.309	37.488	1.00 40.20	AAAA
ATOM	127	N	GLY		18	20.472	26.491	38.822	1.00 39.07	AAAA
MOTA	128	CA	GLY	Α :	18	20.685	25.061	38.898	1.00 39.60	AAAA
ATOM	129	С	GLY	A :	18	21.381	24.564	37.647	1.00 42.13	AAAA
ATOM	130	0	GLY		18	22.177	25.291	37.055	1.00 43.87	AAAA
ATOM	131	И	THR		19	21.084	23.328	37.248	1.00 42.95	AAAA
MOTA	132	CA	THR		19	21.672	22.714	36.050	1.00 42.55	AAAA
ATOM ATOM	133 134	CB	THR		19	21.200	21.243	35.890	1.00 43.19	AAAA
ATOM	135		THR		19 19	19.786	21.223	35.645	1.00 45.22	AAAA
ATOM	136	CGZ	THR		19	21.488 21.268	20.440 23.457	37.142 34.771	1.00 42.52	AAAA
ATOM	137	ŏ	THR		19	20.372	23.437	34.771	1.00 41.04 1.00 41.35	АААА АААА
MOTA	138	N	PHE		20	21.923	23.139	33.660	1.00 40.62	AAAA
MOTA	139	CA	PHE		20	21.579	23.765	32.386	1.00 40.80	AAAA
ATOM	140	CB	PHE	A :	20	22.460	23.232	31.259	1.00 37.73	AAAA
ATOM	141	CG	PHE		20	23.835	23.823	31.230	1.00 36.96	AAAA
ATOM	142		PHE .		20	24.927	23.047	30.855	1.00 36.72	AAAA
ATOM	143		PHE .		20	24.040	25.166	31.547	1.00 36.87	AAAA
ATOM ATOM	144 <b>1</b> 45		PHE PHE		20 20	26.206	23.599	30.793	1.00 36.02	AAAA
121 011	740	052	EUF.	Α .	20	25.307	25.728	31.488	1.00 34.90	AAAA

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ATOM	146	CZ	PHE	A	20	26.396	24.942	31.109	1.00 35.52	AAAA
ATOM	147	С	PHE	A	20	20.129	23.435	32.087	1.00 42.19	AAAA
MOTA	148	0	PHE		20	19.332	24.325	31.795	1.00 43.72	AAAA
ATOM	149	N	GLU		21	19.788 18.424	22.150 21.706	32.180 31.922	1.00 44.45 1.00 44.35	AAAA AAAA
ATOM ATOM	150 151	CA CB	GLU GLU		21 21	18.303	20.195	32.083	1.00 44.38	AAAA
ATOM	152	CG	GLU		21	16.888	19.716	31.872	1.00 47.84	AAAA
ATOM	153	CD	GLU		21	16.788	18.214	31.731	1.00 52.42	AAAA
MOTA	154	OE1	GLU		21	17.429	17.677	30.799	1.00 55.13	AAAA
ATOM	155		GLU		21	16.067	17.576 22.402	32.540 32.852	1.00 53.51 1.00 43.52	AAAA AAAA
ATOM ATOM	156 157	С 0	GLU GLU		21 21	17.439 16.415	22.402	32.404	1.00 44.56	AAAA
ATOM	158	N	ASP		22	17.732	22.397	34.147	1.00 41.38	AAAA
ATOM	159	CA	ASP		22	16.854	23.075	35.080	1.00 40.14	AAAA
ATOM	160	CB	ASP		22	17.475	23.112	36.480	1.00 44.08	AAAA
ATOM	161	CG	ASP		22	17.243	21.835 21.179	37.260 37.014	1.00 47.25 1.00 48.39	AAAA AAAA
ATOM ATOM	162 163		ASP ASP		22 22	16.204 18.085	21.507	38.131	1.00 46.89	AAAA
ATOM	164	C	ASP		22	16.670	24.508	34.582	1.00 37.26	AAAA
ATOM	165	O	ASP		22	15.568	24.957	34.305	1.00 34.37	AAAA
MOTA	166	N	HIS	Α	23	17.786	25.212	34.473	1.00 36.01	AAAA
MOTA	167	CA	HIS		23	17.815	26.593	34.030 33.737	1.00 35.30 1.00 32.68	AAAA AAAA
ATOM	168	CB CG	HIS HIS		23 23	19.265 19.452	26.970 28.389	33.737	1.00 32.00	AAAA
ATOM ATOM	169 170		HIS		23	19.770	28.920	32.107	1.00 28.13	AAAA
ATOM	171		HIS		23	19.349	29.448	34.182	1.00 31.89	AAAA
MOTA	172		HIS		23	19.600	30.571	33.536	1.00 32.54	AAAA
ATOM	173		HIS		23	19.860	30.277 26.810	32.276 32.786	1.00 31.85 1.00 37.38	AAAA AAAA
MOTA ATOM	174 175	С 0	HIS HIS		23 23	16.951 16.247	27.819	32.666	1.00 37.60	AAAA
ATOM	176	N	PHE		24	17.017	25.857	31.864	1.00 38.04	AAAA
ATOM	177	CA	PHE	Α	24	16.259	25.930	30.622	1.00 39.10	AAAA
ATOM	178	CB	PHE		24	16.729	24.857	29.654	1.00 36.88	AAAA AAAA
ATOM	179	CG	PHE		24 24	15.936 16.170	24.824 25.749	28.406 27.401	1.00 41.27 1.00 40.97	AAAA
ATOM ATOM	180 181	CD1 CD2			24	14.887	23.918	28.256	1.00 42.74	AAAA
ATOM	182	CE1			24	15.365	25.774	26.258	1.00 42.56	AAAA
MOTA	183	CE2			24	14.081	23.939	27.121	1.00 42.07	AAAA
ATOM	184	CZ	PHE		24	14.322 14.746	24.868 25.786	26.123 30.805	1.00 41.24 1.00 40.50	AAAA AAAA
ATOM ATOM	185 186	C O	PHE		24 24	13.961	26.455	30.129	1.00 40.46	AAAA
MOTA	187	N	LEU		25	14.336	24.891	31.700	1.00 41.14	AAAA
ATOM	188	CA	LEU		25	12.918	24.682	31.953	1.00 39.95	AAAA
ATOM	189	CB	LEU		25	12.724	23.485 22.207	32.872 32.226	1.00 37.25 1.00 39.85	AAAA - AAAA
ATOM ATOM	190 191	CG CD1	LEU LEU		25 25	13.249 13.214	21.072	33.224	1.00 41.08	AAAA
ATOM	192		LEU		25	12.400	21.872	31.008	1.00 40.45	AAAA
ATOM	193	C	LEU		25	12.339	25.928	32.585	1.00 40.91	AAAA
ATOM	194	0	LEU		25	11.164	26.252	32.398	1.00 44.10 1.00 40.58	AAAA AAAA
ATOM	195	N	SEF		26	13.175 12.754	26.631 27.845	33.338 34.001	1.00 40.38	AAAA
ATOM ATOM	196 197	CA CB	SEF SEF		26 26	13.851	28.286	34.967	1.00 40.04	AAAA
ATOM	198	OG	SEF		26	13.429	29.363	35.788	1.00 43.84	AAAA
ATOM	199	C	SEF	R A	26	12.493	28.919	32.942	1.00 39.74	AAAA
ATOM	200	0	SEF		26	11.511	29.661	33.011	1.00 38.61 1.00 38.61	АААА АААА
ATOM	201 202	N CA	LEU		27 27	13.375 13.240	28.986 29.970	31.953 30.895	1.00 40.17	AAAA
ATOM ATOM	202	CB	LEU		27	14.445	29.911	29.954	1.00 40.01	AAAA
ATOM	204	CG	LE		27	14.287	30.792	28.711	1.00 41.17	AAAA
ATOM	205		LEU		27	14.199	32.248	29.139	1.00 41.18	АДДА АДДД
ATOM	206		LEU		27	15.450	30.590 29.710	27.762 30.097	1.00 42.19 1.00 41.62	AAAA
ATOM ATOM	207 208	C O		JA JA	27 27	11.976 11.123	30.583	29.941	1.00 41.12	AAAA
ATOM	209	N		ΙA	28	11.877	28.486	29.595	1.00 43.19	AAAA
ATOM	210	CA	GL	۱ A	28	10.753	28.045	28.787	1.00 43.50	AAAA
MOTA	211	CB		A I		10.934	26.580	28.442	1.00 42.43 1.00 43.05	AAAA AAAA
MOTA	212	CG		A I		9.836 10.100	26.003 24.559	27.599 27.308	1.00 43.05	AAAA
MOTA MOTA	213 214	CD OE 1	ادلی L GLI	A V A V		10.224	23.756	28.234	1.00 44.16	AAAA
ATOM	215		2 GL			10.210	24.212	26.027	1.00 39.06	AAAA
ATOM	216	С	GL	N A	28	9.422	28.242	29.478	1.00 44.73	AAAA
ATOM	217	0		N A		8.405	28.496	28.833	1.00 46.56 1.00 44.55	АААА АААА
ATOM	218 219			GA GA		9.431 8.213	28.133 28.293	30.796 31.549	1.00 44.33	AAAA
ATOM ATOM	219			G A		8.378	27.655	32.926	1.00 44.13	AAAA
			•							

ATOM	221	CG	ARG	А	29	7.081	27.429	33.645	1.00 45.42	AAAA
ATOM	222	CD	ARG		29	7.292	26.811	35.006	1.00 47.52	AAAA
ATOM	223	ΝE	ARG		29	8.120	25.610	34.963	1.00 49.99	AAAA
ATOM	224	CZ	ARG	Α	29	9.315	25.505	35.546	1.00 51.33	AAAA
ATOM	225	NH1	ARG	А	29	9.829	26.538	36.216	1.00 51.14	AAAA
ATOM	226	NH2	ARG	Α	29	9.990	24.361	35.477	1.00 48.58	AAAA
ATOM	227	С	ARG	Α	29	7.871	29.769	31.679	1.00 46.59	AAAA
ATOM	228	0	ARG	Α	29	6.712	30.149	31.655	1.00 48.01	AAAA
ATOM	229	N	MET	Α	30	8.887	30.609	31.790	1.00 49.05	AAAA
ATOM	230	CA	MET		30	8.653	32.039	31.954	1.00 50.83	AAAA
ATOM	231	CB	MET		30	9.880	32.697	32.618	1.00 51.68	AAAA
ATOM	232	CG	MET		30	9.999	32.497	34.141	1.00 51.70	AAAA
ATOM	233	SD	MET		30	8.875	33.545	35.156	1.00 55.08	AAAA
ATOM	234	CE	MET		30	7.485	32.337	35.438	1.00 52.70	AAAA
ATOM	235	C	MET		30	8.284	32.808	30.686	1.00 52.17	AAAA
ATOM	236	0	MET		30	7.807	33.934	30.781	1.00 52.48	AAAA
ATOM	237	N	PHE		31	8.486	32.213	29.509	1.00 53.51	AAAA
ATOM	238	CA	PHE		31	8.186	32.903	28.253	1.00 53.79	AAAA
ATOM	239	CB	PHE		31	9.487	33.412	27.630	1.00 51.40	AAAA
ATOM	240	CG	PHE		31	10.256	34.340	28.510	1.00 47.05	AAAA
ATOM	241		PHE		31	11.473	33.955	29.045	1.00 47.16	AAAA
ATOM	242		PHE		31	9.756	35.587	28.824	1.00 44.05	AAAA
ATOM	243		PHE		31	12.181	34.803	29.883	1.00 45.76	AAAA
ATOM	244		PHE		31	10.457	36.439	29.660	1.00 44.60	AAAA
ATOM	245	CZ	PHE		31	11.670	36.049	30.191	1.00 44.40	AAAA
ATOM	246	C	PHE		31	7.441	32.094	27.192	1.00 57.07	AAAA
ATOM	247	ō	PHE		31	7.307	32.554	26.064	1.00 56.09	AAAA
ATOM	248	N	ASN		32	6.954	30.910	27.550	1.00 61.83	AAAA
ATOM	249	CA	ASN		32	6.264	30.027	26.609	1.00 66.77	AAAA
ATOM	250	СВ	ASN		32	5.398	29.025	27.350	1.00 71.67	AAAA
ATOM	251	CG	ASN		32	5.129	27.789	26.523	1.00 79.03	AAAA
ATOM	252		ASN		32	5.201	27.830	25.297	1.00 78.00	AAAA
ATOM	253		ASN		32	4.816	26.686	27.193	1.00 87.42	AAAA
ATOM	254	C	ASN		32	5.407	30.657	25.516	1.00 67.85	AAAA
ATOM	255	ō	ASN		32	5.795	30.693	24.345	1.00 70.14	AAAA
ATOM	256	N	ASN		33	4.220	31.117	25.880	1.00 67.36	AAAA
ATOM	257	CA	ASN		33	3.338	31.727	24.894	1.00 67.78	AAAA
ATOM	258	СВ	ASN		33	1.929	31.139	25.003	1.00 68.45	AAAA
MOTA	259	CG	ASN		33	1.919	29.619	24.947	1.00 71.16	AAAA
ATOM	260		ASN		33	2.033	29.017	23.872	1.00 72.17	AAAA
ATOM	261		ASN		33	1.790	28.987	26.113	1.00 70.92	AAAA
ATOM	262	C	ASN	Α	33	3.288	33.208	25.202	1.00 67.66	AAAA
MOTA	263	0	ASN	Α	33	2.224	33.750	25.476	1.00 68.45	AAAA
ATCM	264	N	CYS	Α	34	4.438	33.869	25.159	1.00 66.81	AAAA
MOTA	265	CA	CYS	A	·34	4.473	35.287	25.482	1.00-65.05	AAAA
ATOM	266	C	CYS	Α	34	4.712	36.190	24.283	1.00 63.37	AAAA
ATOM	267	0	CYS	A	34	5.594	35.944	23.469	1.00 62.13	AAAA
ATOM	268	CB	CYS	A	34	5.541	35.546	26.545	1.00 66.21	AAAA
ATOM	269	SG	CYS	Α	34	5.468	37.213	27.269	1.00 68.30	AAAA
MOTA	270	N	GLU	Α	35	3.911	37.243	24.189	1.00 62.51	AAAA
ATOM	271	CA	GLU	Α	35	4.023	38.204	23.106	1.00 63.05	AAAA
ATOM	272	CB	GLU	Α	35	2.650	38.449	22.489	1.00 64.48	AAAA
ATOM	273	CG	GLU	Α	35	2.111	37.250	21.746	1.00 67.60	AAAA
MOTA	274	CD	GLU	A	35	0.694	37.457	21.285	1.00 69.89	AAAA
MOTA	275		GLU		35	0.413	38.555	20.758	1.00 72.02	AAAA
MOTA	276	OE2	GLU	Α	35	-0.133	36.528	21.442	1.00 70.19	AAAA
MOTA	277	C	GLU	Α	35	4.618	39.511	23.617	1.00 62.34	AAAA
MOTA	278	0	GLU	Α	35	5.366	40.193	22.906	1.00 62.43	AAAA
MOTA	279	N	VAL	Α	36	4.278	39.870	24.849	1.00 61.08	AAAA
ATOM	280	CA	VAL		36	4.826	41.083	25.446	1.00 60.15	AAAA
MOTA	281	CB	VAL	Ą	36	3.741	42.133	25.690	1.00 60.11	AAAA
ATOM	282	CG1	. VAL	Α	36	4.341	43.343	26.386	1.00 59.33	AAAA
ATOM	283	CG2	LAV	Α	36	3.122	42.540	24.367	1.00 61.58	AAAA
MOTA	284	С	VAL		36	5.518	40.775	26.770	1.00 58.42	AAAA
ATOM	285	0	VAL		36	4.989	40.040	27.611	1.00 57.58	AAAA
ATOM	286	N	VAL		37	6.716	41.324	26.938	1.00 55.82	AAAA
ATOM	287	CA	VAL		37	7.468	41.119	28.166	1.00 53.38	AAAA
MOTA	288	CB	VAL		37	8.928	40.672	27.899	1.00 53.54	AAAA
MOTA	289		. VAL		37	9.642	40.454	29.214	1.00 50.19	AAAA
MOTA	290		· VAL		37	8.951	39.388	27.076	1.00 53.07	AAAA
ATOM	291	С	VAL		37	7.497	42.429	28.922	1.00 52.08	AAA
MOTA	292	0	VAL		37	8.115	43.404	28.479		AAAA
MOTA	293	N	LEU		38	6.814	42.449	30.060	1.00 51.26	AAAA
MOTA	294	CA	LEU		38	6.756	43.635	30.899	1.00 51.36	AAAA
ATOM	295	CB	LEU	A	38	5.665	43.447	31.944	1.00 54.36	AAAA

ATOM	296	CG	LEU	А	38	4.261	43.423	31.333	1.00 55.88	AAAA
ATOM	297		LEU		38	3.219	43.106	32.398	1.00 53.81	AAAA
ATOM	298		LEU		38	3.989	44.781	30.672	1.00 55.58	AAAA
MOTA	299	С	LEU		38	8.106	43.921	31.567	1.00 51.11	AAAA
ATOM	300	Ō	LEU		38	8.477	45.080	31.784	1.00 50.75	AAAA
ATOM	301	N	GLY		39	8.839	42.858	31.888	1.00 48.80	AAAA
ATOM	302	CA	GLY		39	10.140	43.024	32.497	1.00 47.84	AAAA
ATOM	303	C	GLY		39	11.247	42.948	31.462	1.00 47.88	AAAA
ATOM	304	ō	GLY		39	11.175	43.574	30.406	1.00 48.12	AAAA
ATOM	305	N	ASN		40	12.282	42.178	31.768	1.00 46.62	AAAA
ATOM	306	CA	ASN		40	13.400	42.021	30.861	1.00 43.86	AAAA
ATOM	307	CB	ASN		40	14.712	42.206	31.600	1.00 45.69	AAAA
ATOM	308	CG	ASN		40	14.713	43.435	32.454	1.00 48.30	AAAA
	309		ASN		40	14.555	44.555	31.953	1.00 48.26	AAAA
ATOM							43.244	33.759	1.00 47.89	AAAA
ATOM	310		ASN		40	14.887	40.637	30.272	1.00 42.17	AAAA
ATOM	311	C	ASN		40	13.386			1.00 42.17	AAAA
ATOM	312	0	ASN		40	12.754	39.720	30.803		
ATOM	313	N	LEU		41	14.079	40.491	29.153	1.00 38.93	AAAA
ATOM	314	CA	LEU		41	14.182	39.199	28.521	1.00 35.15	AAAA
MOTA	315	CB	LEU		41	13.802	39.293	27.044	1.00 34.04	AAAA
MOTA	316	CG	LEU	А	41	14.014	38.034	26.202	1.00 33.00	AAAA
MOTA	317		LEU		41	13.199	36.893	26.763	1.00 30.49	AAAA
MOTA	318	CD2	LEU	Α	41	13.626	38.326	24.757	1.00 32.03	AAAA
MOTA	319	С	LEU	Α	41	15.645	38.803	28.694	1.00 34.19	AAAA
ATOM	320	0	LEU	Α	41	16.555	39.477	28.195	1.00 32.52	AAAA
MOTA	321	N	GLU	Α	42	15.859	37.730	29.444	1.00 31.73	AAAA
ATOM	322	CA	GLU	Α	42	17.190	37.230	29.696	1.00 29.38	AAAA
MOTA	323	CB	GLU	Α	42	17.481	37.297	31.187	1.00 29.65	AAAA
ATOM	324	CG	GLU		42	17.583	38.718	31.724	1.00 29.88	AAAA
MOTA	325	CD	GLU		42	17.623	38.766	33.244	1.00 29.81	AAAA
ATOM	326		GLU		42	18.178	39.756	33.789	1.00 28.19	AAAA
ATOM	327		GLU		42	17.086	37.824	33.884	1.00 25.40	AAAA
ATOM	328	C	GLU		42	17.342	35.800	29.200	1.00 29.63	AAAA
	329	0	GLU		42	16.810	34.857	29.790	1.00 30.60	AAAA
ATOM						18.070	35.636	28.108	1.00 28.89	AAAA
ATOM	330	N	ILE		43			27.552	1.00 20.03	AAAA
ATOM	331	CA	ILE		43	18.301	34.313		1.00 25.01	AAAA .
ATOM	332	CB	ILE		43	18.001	34.303	26.043		AAAA
ATOM	333		ILE		43	18.195	32.901	25.460	1.00 26.39	AAAA
ATOM	334		ILE		43	16.545	34.711	25.827	1.00 25.92	AAAA
MOTA	335		ILE		43	16.297	35.280	24.460	1.00 28.07	AAAA
ATOM	336	С	ILE		43	19.757	33.992	27.848	1.00 29.64	AAAA
ATOM	337	0	ILE		43	20.669	34.555	27.248	1.00 31.56	
ATOM	338	N	THR		44	19.967	33.079	28.788	1.00 29.40	AAAA AAAA
ATOM	339	CA	THR		44	21.312	32.749	29.205	1.00 29.05	- AAAA
MOTA	340	CB	THR		44	21.633		30.521	1.00 29.58	
MOTA	341		THR		44	20.720	33.033	31.537	1.00 25.70	AAAA
MOTA	342		THR		44	21.480	34.975	30.351	1.00 29.22	AAAA
ATOM	343	C	THR		44	21.585	31.277	29.411	1.00 31.35	AAAA
MOTA	344	0	THR	Α	44	20.715	30.519	29.824	1.00 32.38	AAAA
MOTA	345	N	TYR		45	22.817	30.881	29.121	1.00 32.62	AAAA
MOTA	346	CA	TYR	Α	45	23.260	29.510	29.308	1.00 32.93	AAAA
MOTA	347	CB	TYR	Α	45	23.240	29.172	30.797	1.00 31.36	AAAA
ATOM	348	CG	TYR	Α	45	24.069	30.118	31.637	1.00 31.06	AAAA
MOTA	349	CD1	TYR	Α	45	23.468	31.068	32.444	1.00 29.52	AAAA
ATOM	350	CE1	TYR	Α	45	24.232	31.944	33.204	1.00 31.24	AAAA
ATOM	351	CD2	TYR	Α	45	25.463	30.066	31.607	1.00 30.96	AAAA
MOTA	352	CE2	TYR	Α	45	26.235	30.934	32.361	1.00 30.37	AAAA
ATOM	353	CZ	TYR	Α	45	25.617	31.873	33.158	1.00 32.02	AAAA
ATOM	354	OH	TYR	Α	45	26.383	32.747	33.907	1.00 30.65	AAAA
ATOM	355	С	TYR	Α	45	22.541	28.412	28.537	1.00 34.83	AAAA
ATOM	356	0	TYR		45	22.683	27.245	28.878	1.00 37.56	AAAA
ATOM	357	N	VAL		46	21.777	28.751	27.505	1.00 35.00	AAAA
ATOM	358	CA	VAL		46	21.107	27.706	26.743	1.00 34.52	AAAA
ATOM	359	CB	VAL		46	20.071	28.285	25.763	1.00 33.22	AAAA
ATOM	360		VAL		46	19.555	27.176	24.851	1.00 29.52	AAAA
ATOM	361		VAL		46	18.909	28.921	26.553	1.00 28.78	AAAA
ATOM	362	Ç	VAL		46	22.170	26.926	25.979	1.00 36.52	AAAA
	363	o	VAL		46	23.033	27.511	25.328	1.00 39.39	AAAA
MOTA					47	22.112	25.601	26.063	1.00 37.97	AAAA
MOTA	364	N	GLN				24.750	25.405	1.00 39.51	AAAA
ATOM	365	CA	GLN		47	23.100		26.275	1.00 39.35	AAAA
ATOM	366	CB	GLN		47	23.356	23.527	27.675	1.00 39.33	AAAA
ATOM	367	CG	GLN		47	23.792	23.884		1.00 38.72	AAAA
ATOM	368	CD	GLN		47	25.005	24.760			AAAA
ATOM	369		GLN		47	26.040	24.356		1.00 38.96	AAAA
ATOM	370	NEZ	GLN	А	47	24.882	25.972	28.155	1.00 09.07	

ATOM	371	С	GLN A	47	22.714	24.302	24.003	1.00 41.84	AAAA
MOTA	372	0	GLN A	47	21.617	24.596	23.526	1.00 44.46	AAAA
ATOM	373	N	ARG A	48	23.619	23.587	23.341	1.00 42.07	AAAA
ATOM	374	CA	ARG A	48	23.357	23.088	21.997	1.00 42.51	AAAA
ATOM	375	CB	ARG A	48	24.585	22.374	21.439	1.00 43.72	AAAA
ATOM	376	CG	ARG A	48	25.650	23.269	20.865	1.00 45.93	AAAA
ATOM	377	CD	ARG A	48	25.308	23.664	19.456	1.00 48.91	AAAA
ATOM	378	NE	ARG A	48	26.333	24.522	18.861	1.00 52.47	AAAA '
ATOM	379	CZ	ARG A	48	26.347	24.860	17.574		
ATOM	380							1.00 52.99	AAAA
			ARG A	48	25.398	24.405	16.773	1.00 54.62	AAAA
ATOM	381		ARG A	48	27.292	25.654	17.089	1.00 53.96	AAAA
ATOM	382	C	ARG A	48	22.183	22.114	21.954	1.00 43.12	AAAA
MOTA	383	0	ARG A	48	22.040	21.255	22.820	1.00 41.21	AAAA
ATOM	384	N	ASN A	49	21.351	22.268	20.927	1.00 43.46	AAAA
ATOM	385	CA	ASN A	49	20.200	21.407	20.692	1.00 44.27	AAAA
ATOM	386	CB	asn a	49	20.612	19.933	20.752	1.00 46.04	AAAA
ATOM	387	CG	ASN A	49	21.737	19.608	19.790	1.00 49.31	AAAA
ATOM	388		ASN A	49	21.733	20.046	18.638	1.00 50.48	AAAA
ATOM	389	ND2	ASN A	49	22.710	18.836	20.257	1.00 51.17	AAAA
ATOM	390	С	ASN A	49	18.985	21.620	21.570	1.00 43.26	AAAA
ATOM	391	0	ASN A	49	18.110	20.761	21.630	1.00 45.50	AAAA
ATOM	392	N	TYR A	50	18.922	22.736	22.272	1.00 40.42	AAAA
ATOM	393	CA	TYR A	50	17.740	22.989	23.064	1.00 40.65	AAAA
MOTA	394	CB	TYR A	50	18.073	23.717	24.366	1.00 37.63	AAAA
ATOM	395	CG	TYR A	50	18.410	22.788	25.508	1.00 34.03	AAAA
ATOM	396		TYR A	50	19.620	22.105	25.539	1.00 31.93	AAAA
ATOM	397		TYR A	50	19.935	21.248	26.593	1.00 31.93	AAAA
ATOM	398		TYR A	50	17.510				
ATOM	399	CE2				22.589	26.559	1.00 33.28	AAAA
ATOM				50	17.815	21.730	27.621	1.00 32.77	AAAA
	400	CZ	TYR A	50	19.037	21.067	27.629	1.00 33.14	AAAA
ATOM	401	OH	TYR A	50	19.385	20.253	28.686	1.00 35.29	AAAA
ATOM	402	С	TYR A	50	16.906	23.859	22.154	1.00 42.05	AAAA
ATOM	403	0	TYR A	50	17.405	24.829	21.595	1.00 43.55	AAAA
ATOM	404	N	ASP A	51	15.642	23.507	21.976	1.00 43.72	AAAA
ATOM	405	CA	ASP A	51	14.803	24.277	21.075	1.00 45.27	AAAA
ATOM	406	CB	ASP A	51	13.638	23.434	20.558	1.00 46.52	AAAA
ATOM	407	CG	ASP A	51	12.800	24.182	19.552	1.00 47.69	AAAA
ATOM	408		ASP A	51	13.354	24.546	18.495	1.00 49.38	AAAA
ATOM	409	OD2	ASP A	51	11.601	24.416	19.819	1.00 48.35	AAAA
ATOM	410	С	ASP A	51	14.263	25.535	21.708	1.00 44.96	AAAA
ATOM	411	0	ASP A	51	13.631	25.488	22.764	1.00 45.99	AAAA
ATOM	412	N	LEU A	52	14.505	26.658	21.043	1.00 42.77	AAAA
ATOM	413	CA	LEU A	52	14.053	27.945	21.531	1.00 41.91	AAAA
ATOM	414	CB	LEU A	52	15.233	28.915	21.590	1.00 40.33	AAAA
ATOM	415	CG	LEU A	-52:	16:300	28.599	22.638	1.00 39.29	AAAA
ATOM	416	CD1	LEU A	52	17.490	29.515	22.467	1.00 38.52	AAAA
ATOM	417		LEU A	52	15.698	28.760	24.021	1.00 39.03	AAAA
ATOM	418	С	LEU A	52	12.965	28.499	20.621	1.00 42.92	AAAA
ATOM	419	0	LEU A	52	12.693	29.709	20.616		AAAA
ATOM	420	N	SER A	53	12.332	27.612	19.859	1.00 42.28	AAAA
ATOM	421	CA	SER A	53	11.291	28.030	18.933	1.00 41.55	AAAA
ATOM	422	CB	SER A	53	10.695	26.825	18.229	1.00 43.43	AAAA
ATOM	423	OG	SER A	53	11.700	26.112	17.525	1.00 47.51	
ATOM	424	C	SER A	53	10.191	28.792			AAAA
ATOM	425	ŏ		53			19.629	1.00 41.91	AAAA
ATOM	425	И	SER A PHE A	54	9.550 9.975	29.643	19.022	1.00 41.70	AAAA
ATOM	427					28.498	20.908	1.00 42.18	AAAA
	428	CA	PHE A	54	8.928	29.174	21.647	1.00 41.47	AAAA
ATOM ATOM		CB	PHE A	54	8.750	28.550	23.030	1.00 43.28	AAAA
	429	CG	PHE A	54	9.882	28.816	23.981	1.00 43.30	AAAA
ATOM	430		PHE A	54	9.988	30.035	24.635	1.00 42.85	AAAA
ATOM	431		PHE A	54	10.841	27.840		1.00 41.88	AAAA
ATOM	432		PHE A	54	11.033	30.272	25.519	1.00 43.80	AAAA
ATOM	433		PHE A	54	11.883	28.072	25.112	1.00 41.15	AAAA
ATOM	434	CZ	PHE A	54	11.983	29.283	25.756	1.00 39.85	AAAA
ATOM	435	С	PHE A	54	9.205	30.653	21.776	1.00 42.13	AAAA
ATOM	436	0	PHE A	54	8.334	31.411	22.199	1.00 44.55	AAAA
MOTA	437	N	LEU A	5 <b>5</b>	10.412	31.068	21.402	1.00 42.00	AAAA
MOTA	438	CA	LEU A	55	10.796	32.480	21.478	1.00 41.40	AAAA
MOTA	439	CB	LEU A	55	12.328	32.623	21.508	1.00 39.77	AAAA
ATOM	440	CG	LEU A	5 <b>5</b>	13.057	32.401	22.842	1.00 38.03	AAAA
ATOM	441	CD1	LEU A	55	14.578	32.528	22.652	1.00 34.81	AAAA
ATOM	442		LEU A	55	12.553	33.409	23.850	1.00 34.76	AAAA
ATOM	443	С	LEU A	55	10.245	33.316	20.329	1.00 41.19	AAAA
ATOM	444	o	LEU A	55	10.271	34.546	20.374	1.00 40.16	AAAA
ATOM	445	N	LYS A	56	9.748	32.642	19.299	1.00 43.68	AAAA

ATOM	446	CA	LYS	A	56	9.222	33.318	18.125	1.00	43.14	AAAA
ATOM	447	CB	LYS		56	8.900	32.307	17.035	1.00	44.23	AAAA
ATOM	448	CG	LYS	A	56	10.106	31.666	16.395		44.41	AAAA
MOTA	449	CD	LYS		56	9.670	30.651	15.363		46.05	AAAA AAAA
ATOM	450	CE	LYS		56	10.862	29.933	14.757		49.74	AAAA
ATOM	451	NZ	LYS		56	10.420	28.757 34.164	13.951 18.400		52.85 44.95	AAAA
ATOM	452	C	LYS		56 56	8.001 7.647	35.007	17.584		46.29	AAAA
ATOM ATOM	453 454	O N	THR		57	7.349	33.969	19.539		45.79	AAAA
ATOM	455	CA	THR		57	6.175	34.780	19.813		48.11	AAAA
ATOM	456	СВ	THR		57	5.128	34.009	20.689	1.00	49.20	AAAA
ATOM	457	OG1	THR	A	57	5.721	33.587	21.923		53.29	AAAA
MOTA	458	CG2	THR		57	4.613	32.786	19.950		48.09	AAAA
ATOM	459	С	THR		57	6.463	36.148	20.445		48.67 51.05	AAAA AAAA
ATOM	460	0	THR		57 58	5.592 7.668	37.019 36.367	20.442	_	47.16	AAAA
MOTA	461 462	N CA	ILE		58	7.962	37.655	21.605		46.96	AAAA
ATOM ATOM	463	CB	ILE		58	9.354	37.677	22.273		45.80	AAAA
ATOM	464		ILE		58	9.596	39.035	22.891		41.40	AAAA
ATOM	465		ILE		58	9.460	36.589	23.339		45.34	AAAA
ATOM	466		ILE		58	8.646	36.855	24.572		47.13	AAAA
ATOM	467	C	ILE	Α	58	7.908	38.818	20.622		47.88	AAAA
MOTA	468	0	ILE		58	8.682	38.865	19.669		49.59	AAAA AAAA
ATOM	469	N	GLN		59	7.013	39.771	20.871		48.26 48.90	AAAA .
ATOM	470	CA	GLN		59 50	6.869 5.392	40.928 41.134	19.994 19.641		48.93	AAAA
MOTA	471 472	CB CG	GLN GLN		59 59	4.867	40.142	18.608		50.27	AAAA
ATOM ATOM	473	CD	GLN		59	3.385	39.857	18.763		52.51	AAAA
ATOM	474		GLN		59	2.577	40.775	18.946	1.00	55.61	AAAA
ATOM	475	NE2	GLN		59	3.016	38.579	18.683		49.97	AAAA
MOTA	476	С	GLN	Α	59	7.437	42.192	20.616		49.41	AAAA
MOTA	477	0	GLN	Α	59	7.981	43.049	19.914		48.64	AAAA
ATOM	478	N	GLU		60	7.317	42.301	21.938		50.81	AAAA AAAA
MOTA	479	CA	GLU		60	7.818	43.471	22.662 22.948		51.26 54.42	AAAA
ATOM	480	CB	GLU GLU		60 60	6.675 5.981	44.450 45.020	21.725		59.92	AAAA
ATOM ATOM	481 482	ÇG CD	GLU		60	5.015	46.149.			64.28	AAAA
ATOM	483		GLU		60	4.721	46.970	21.174	1.00	68.39	AAAA
ATOM	484		GLU		60	4.546	46.217	23.235	1.00	63.45	AAAA
ATOM	485	С	GLU	Α	60	8.487	43.128	23.991		49.46	AAAA
ATOM	486	0	GLU	А	60	8.099	42.186	24.681		50.95	AAAA
ATOM	487	N	VAL		61	9.493	43.911	24.347		46.82 44.70	AAAA AAAA
ATOM	488	CA	VAL		61	10.195 11.633	43.735	25.610 25.401		44.70	AAAA
ATOM	489 490	CB	VAL		61 61	12.542	43.640	26.539		42.71	- AAAA
ATOM ATOM	491		VAL		61	11.602	41.659	25.327	_	42.99	AAAA
ATOM	492	C	VAL		61	10.250	45.122	26.227	1.00	43.84	AAAA
ATOM	493	0	VAL		61	10.854	46.034	25.657		43.48	AAAA
ATOM	494	N	ALA		62	9.612	45.281	27.385		43.32	AAAA
ATOM	495	CA	ALA		62	9.568	46.580	28.056		43.36	AAAA AAAA
ATOM	496	CB	ALA		62	8.506	46.572	29.114		44.21	AAAA
ATOM	497 498	C	ALA ALA		62 62	10.890 11.280	48.161	28.662 28.540		43.32	AAAA
ATOM ATOM	499	O N	GLY		63	11.585	46.078	29.308		42.69	AAAA
ATOM	500	CA	GLY		63	12.853	46.417	29.931	1.00	43.31	AAAA
ATOM	501	C	GLY		63	14.040	46.305	28.994		43.30	AAAA
MOTA	502	0	GLY	Α	63	14.090	46.986	27.962		42.53	AAAA
ATOM	503	N	TYR		64	15.000	45.453	29.357		40.39	AAAA AAAA
MOTA	504	CA	TYR		64	16.184	45.248	28.537 29.332		37.37 38.21	AAAA
ATOM	505	CB	TYR		64 64	17.443 17.678	45.582 44.694	30.532		41.19	AAAA
ATOM	506 507	CG CD1	TYR TYR		64	18.180	43.397	30.390		39.84	AAAA
ATOM ATOM	508		TYR		64.	18.427	42.599	31.510		42.33	AAAA
ATOM	509		TYR		64	17.424	45.164	31.821		41.96	AAAA
ATOM	510		TYR		64	17.667	44.376	32.944		41.43	AAAA
ATOM	511	CZ	TYR		64	18.168	43.101	32.791		43.66	AAAA
ATOM	512	OH	TYR		64	18.423	42.348	33.924		43.08	AAAA
ATOM	513	C	TYR		64	16.251	43.809	28.046		36.03	<b>AAAA</b> <b>AAA</b> A
ATOM	514	0	TYP		64	15.478	42.952	28.489 27.118		37.32 32.77	AAAA
ATOM	515 516	N	VAI VAI		65 65	17.167 17.341	43.549 42.217	26.573		30.05	AAAA
ATOM ATOM	516 517	CA CB	VAL		65	17.011		25.066		29.78	AAAA
ATOM	518		L VAI		65	17.346	40.811	24.484		29.57	AAAA
ATOM	519		VAI		65	15.554		24.861		28.97	AAAA
ATOM	520	С	VAI	A	65 ·	18.779	41.764	26.782	1.00	29.60	AAAA

ATOM	521	0	VAL	A	65	19.720	42.363	26.247	1.00 28.99	AAAA
ATOM ATOM	522	N	LEU		66	18.938	40.703	27.566	1.00 26.78	AAAA
ATOM	523 524	CA CB	LEU		66 66	20.252 20.479	40.151	27.850	1.00 25.41	AAAA
ATOM	525	CG	PEA		66	21.809	40.035 39.350	29.356 29.689	1.00 25.75 1.00 25.62	дада дада
MOTA	526		LEU		66	22.951	40.216	29.228	1.00 23.52	AAAA
ATOM	527		LEU		66	21.903	39.111	31.184	1.00 27.39	AAAA
ATOM ATOM	528 529	C 0	LEU LEU		66 66	20.407	38.777	27.248	1.00 24.76	AAAA
ATOM	530	И	ILE		67	19.713 21.310	37.842 38.648	27.644 26.287	1.00 24.37 1.00 25.48	AAAA
ATOM	531	CA	ILE		67	21.565	37.351	25.664	1.00 25.48	AAAA AAAA
ATOM	532	CB	ILE		67	21.321	37.426	24.158	1.00 23.50	AAAA
ATOM ATOM	533 534		ILE		67 67	21.594	36.074	23.524	1.00 23.32	AAAA
ATOM	535		ILE		67	19.864 19.483	37.838 37.950	23.920 22.498	1.00 22.06 1.00 20.34	AAAA
ATOM	536	С	ILE		67	23.017	36.999	25.967	1.00 28.03	AAAA AAAA
ATOM	537	0	ILE		67	23.928	37.600	25.409	1.00 31.48	AAAA
ATOM ATOM	538 539	N CA	ALA ALA		68 68	23.251	36.033	26.849	1.00 28.24	AAAA
ATOM	540	CB	ALA		68 68	24.630 25.064	35.739 36.712	27.205 28.280	1.00 29.66 1.00 30.16	AAAA
ATOM	541	С	ALA		68	24.952	34.327	27.656	1.00 30.16	AAAA AAAA
ATOM	542	0	ALA		68	24.115	33.631	28.212	1.00 32.43	AAAA
ATOM ATOM	543 544	N CA	LEU		69 60	26.198	33.929	27.429	1.00 34.40	AAAA
ATOM	545	CB	LEU		69 69	26.697 26.777	32.611 32.528	27.818 29.348	1.00 36.99 1.00 36.64	AAAA
ATOM	546	CG	LEU		69	27.783	33.526	29.950	1.00 36.64	AAAA AAAA
ATOM	547		LEU		69	27.352	33.930	31.327	1.00 34.77	AAAA
ATOM ATOM	548 549	CD2 C	LEU		69	29.167	32.908	29.981	1.00 34.41	AAAA
ATOM	550	0	LEU		69 69	25.855 25.647	31.472 30.445	27.261 27.912	1.00 38.89	AAAA
ATOM	551	N	ASN		70	25.370	31.668	26.041	1.00 40.53 1.00 38.37	AAAA AAAA
ATOM	552	CA	ASN		70	24.566	30.668	25.363	1.00 37.18	AAAA
ATOM ATOM	553 554	CB CG	ASN ASN		70 70	23.432	31.337	24.591	1.00 37.49	AAAA
ATOM	555		ASN		70	22.385 21.659	31.909 31.175	25.485 26.131	1.00 36.89 1.00 39.48	AAAA
ATOM	556		ASN		70	22.292	33.231	25.528	1.00 37.89	AAAA AAAA
MOTA	557	C	ASN		70	25.445	29.949	24.361	1.00 36.17	AAAA
ATOM ATOM	558 559	И О	ASN THR		70 71	26.190 25.359	30.586	23.624	1.00 35.77	AAAA
ATOM	560	CA	THR		71	26.154	28.628 27.906	24.309 23.320	1.00 35.84 1.00 36.64	AAAA AAAA
MOTA	561	CB	THR		71	26.958	26.742	23.955	1.00 35.69	AAAA
ATOM ATOM	562		THR		71	26.088	25.930	24.753	1.00 40.21	AAAA
ATOM	563 564	CGZ	THR		71 71	28.080 25.232	27.285 27.372	24.821	1.00 30.98	AAAA
ATOM	565	Ö	THR			25.685	26.803	22.236 21.254	1.00 36.41 1.00-37 <del>.</del> 39	<b>AAAA</b> <b>AAAA</b>
ATOM	566	N	VAL	Α	72	23.928	27.567	22.420	1.00 37.83	AAAA
ATOM ATOM	567 568	CA CB	VAL VAL		72	22.932	27.118	21.447	1.00 37.68	AAAA
ATOM	569		VAL		72 72	21.496 21.324	27.490 29.000	21.915 21.952	1.00 38.29	AAAA
MOTA	570		VAL		72	20.466	26.850	21.932	1.00 36.04 1.00 36.62	AAAA AAAA
ATOM	571	C	VAL		72	23.236	27.771	20.097	1.00 38.52	AAAA
ATOM ATOM	572 573	O N	VAL GLU		72 73	23.680	28.910	20.042	1.00 38.68	AAAA
ATOM	574	CA	GLU		73	22.995 23.299	27.058 27.595	19.007 17.690	1.00 39.42 1.00 40.33	AAAA AAAA
ATOM	575	CB	GLU		73	23.230	26.469	16.643	1.00 44.37	AAAA
ATOM ATOM	576	CG	GLU		73	23.747	26.885	15.252	1.00 47.89	AAAA
ATOM	577 578	CD OE1	GLU GLU		73 73	23.755 24.490	25.751	14.231	1.00 50.31	AAAA
ATOM	579		GLU		73	23.027	24.761 25.853	14.424 13.220	1.00 50.85 1.00 55.22	AAAA AAAA
ATOM	580	C	GLU	Α	73	22.442	28.781	17.224	1.00 39.15	AAAA
ATOM ATOM	581 582	0	GLU		73	22.961	29.720	16.595	1.00 36.44	AAAA
ATOM	583	N CA	ARG ARG		7 <b>4</b> 74	21.148 20.227	28.747 29.793	17.542 17.106	1.00 36.87 1.00 37.15	AAAA
ATOM	584	CB	ARG		74	19.486	29.793	15.851	1.00 37.13	AAAA AAAA
ATOM	585	CG	ARG		74	18.471	30.266	15.231	1.00 43.40	AAAA
ATOM	586 507	CD	ARG		74	17.691	29.541	14.111	1.00 47.93	AAAA
ATOM ATOM	587 588	NE CZ	ARG ARG		74 74	16.674 16.911	30.367 31.193	13.448	1.00 50.73	AAAA
ATOM	589		ARG		74	18.140	31.193	12.423 11.925	1.00 52.23 1.00 49.68	AAAA AAAA
ATOM	590	NH2	ARG	Α	74	15.916	31.909	11.895	1.00 51.76	AAAA
ATOM ATOM	591 592		ARG		74	19.210	30.216	18.161	1.00 36.02	AAAA
ATOM	593	N	ARG ILE		74 75	18.648 18.984	29.387 31.518	18.867 18.261	1.00 36.41 1.00 35.04	AAAA AAAA
MOTA	594	CA	ILE		75	18.012	32.085	19.195	1.00 35.04	AAAA
ATOM	595	CB	ILE	A	75	18.686	33.071	20.182	1.00 32.14	AAAA

ATOM	596	CG2	ILE	Α	75		17.648	33.663	21.108	1.00 29.33	AAAA
ATOM	597		ILE		75		19.770	32.351	20.977	1.00 30.01	AAAA
ATOM	598	CD1			75		20.450	33.236	21.991	1.00 29.88	AAAA AAAA
ATOM	599 600	С 0	ILE		75 75		17.037 17.243	32.842 34.009	18.283 17.974	1.00 34.50	AAAA
ATOM ATOM	601	N	PRO		76		15.961	32.174	17.855	1.00 34.93	AAAA
ATOM	602	CD	PRO		76		15.618	30.827	18.336	1.00 35.51	AAAA
ATOM	603	CA	PRO		76		14.914	32.679	16.967	1.00 36.26	AAAA
MOTA	604	СВ	PRO		76		14.147	31.412	16.605	1.00 35.71 1.00 37.43	AAAA AAAA
ATOM	605	CG	PRO PRO		76 76		14.178 13.984	30.672 33.801	17.882 17.393	1.00 37.43	AAAA
ATOM ATOM	606 607	С 0	PRO		76		12.773	33.661	17.286	1.00 37.50	AAAA
ATOM	608	N	LEU		77		14.534	34.915	17.860	1.00 36.86	AAAA
MOTA	609	CA	LEU	Α	77		13.704	36.053	18.240	1.00 36.14	AAAA
ATOM	610	CB	LEU		77		14.501	37.015	19.102	1.00 34.89 1.00 33.15	AAAA AAAA
ATOM	611	CG	LEU		77 77		14.759 15.859	36.557 37.405	20.529 21.160	1.00 33.13	AAAA
ATOM ATOM	612 613		LEU		77		13.476	36.666	21.309	1.00 33.49	AAAA
ATOM	614	C	LEU		77		13.314	36.735	16.940	1.00 37.63	AAAA
ATOM	615	0	LEU	Α	77		13.660	37.886	16.707	1.00 36.37	AAAA
ATOM	616	N	GLU		78		12.581	36.009	16.100	1.00 40.28	AAAA
ATOM	617	CA	GLU		78		12.180	36.494 35.303	14.779	1.00 43.01 1.00 42.62	AAAA AAAA
ATOM	618 619	CB CG	GLU		78 78		11.727 12.711	34.144	13.910 13.868	1.00 43.99	AAAA
ATOM ATOM	620	CD	GLU		78		12.234	32.971	13.011	1.00 47.30	AAAA
ATOM	621		GLU		78		11.038	32.615	13.069	1.00 48.98	AAAA
ATOM	622	OE2	GLU	Α	78		13.067	32.385	12.287	1.00 50.13	AAAA
ATOM	623	С	GLU		78		11.110	37.588	14.709	1.00 43.60	AAAA AAAA
ATOM	624	0	GLU ASN		78 79		10.948 10.392	38.211 37.841	13.665 15.798	1.00 46.18 1.00 44.48	AAAA
ATOM ATOM	625 626	n ca	ASN		79		9.329	38.838	15.759	1.00 43.41	AAAA
ATOM	627	СВ	ASN		79		8.000	38.113	15.882	1.00 43.83	AAAA
MOTA	628	CG	ASN		79		7.811	37.084	14.779	1.00 46.36	AAAA
ATOM	629		ASN		79		7.762	37.434	13.598	1.00 48.25 1.00 44.27	AAAA AAAA
ATOM	630 631	ND2 C	ASN ASN		79 79		7.720 9.425	35.813 39.988	15.153 16.761	1.00 44.27	AAAA
ATOM ATOM	632	0	ASN		79		8.537	40.836	16.849	1.00 43.65	AAAA
MOTA	633	N	LEU		80		10.515	40.028	17.511	1.00 43.88	AAAA
ATOM	634	CA	LEU		80		10.717	41.107	18.460	1.00 43.22	AAAA
ATOM	635	CB	LEU		80		11.958 12.430	40.815 41.913	19.297 20.237	1.00 42.11	AAAA AAAA
ATOM ATOM	636 637	CG CD1	LEU		80 80		11.425	42.093	21.349	1.00 38.67	AAAA
ATOM	638		LEU		80		13.792	41.544	20.780	1.00 39.37	AAAA
ATOM	639	С	LEU	Α	80		10.909	42.398	17.654	1.00 43.96	AAAA
MOTA	640	0	LEU		80		11.915	42.556		1 00 46 68	AAAA AAAA
ATOM	641	N CA	GLN GLN		81 81		9.948 10.024	43.317 44.584	17.742 17.000	1.00 46.68 1.00 46.75	AAAA
ATOM ATOM	642 643	CB	GLN		81		8.662	44.962	16.436	1.00 47.28	AAAA
ATOM	644	CG	GLN		81		7.885	43.796	15.902	1.00 51.74	AAAA
ATOM	645	CD	GLN	A	81		6.488	44.183	15.511	1.00 52.76	AAAA
MOTA	646		GLN		81		6.276	44.834	14.488	1.00 52.29 1.00 53.29	AAAA AAAA
ATOM	647	NE2 C	GLN GLN		81 81		5.517 10.497	43.794 45.738	16.333 17.852	1.00 33.23	AAAA
ATOM ATOM	648 649	0	GLN		81		11.083	46.701	17.342	1.00 46.16	AAAA
ATOM	650	N	ILE		82		10.254	45.641	19.156	1.00 48.09	AAAA
MOTA	651	CA	ILE	Α	82		10.627	46.728	20.050	1.00 47.37	AAAA
MOTA	652	CB	ILE		82		9.409	47.659	20.250	1.00 47.03	AAAA AAAA
ATOM	653		ILE		82		8.186 9.678	46.839 48.674	20.596 21.353	1.00 44.21 1.00 48.72	AAAA
ATOM ATOM	654 655		ILE		82 82		8.616	49.741	21.453	1.00 52.12	AAAA
ATOM	656	C	ILE		82		11.199	46.368	21.424	1.00 47.37	AAAA
ATOM	657	0	ILE		82		10.742	45.444	22.096	1.00 46.42	AAAA
ATOM	658	N	ILE		83		12.214	47.127	21.817	1.00 46.93	AAAA AAAA
ATOM	659	CA	ILE		83		12.857	46.992 46.623	23.112	1.00 47.59 1.00 46.57	AAAA
ATOM ATOM	660 661	CB CG?	ILE ILE		83 83		14.343 15.011	46.623	24.349	1.00 45.45	AAAA
ATOM	662		ILE		83		14.481	45.225	22.388	1.00 45.78	AAAA
MOTA	663		ILE		83		15.904	44.811	22.144	1.00 46.11	- AAAA
ATOM	664	С		A E	83		12.752	48.393	23.693	1.00 49.54 1.00 50.04	AAAA AAAA
ATOM	665	O N		2 A	83		13.534 11.779	49.279 48.602	23.334 24.576	1.00 50.04	AAAA
ATOM ATOM	666 667	N CA		3 A 3 A	84 84		11.779	49.918	25.174	1.00 52.91	AAAA
ATOM	668	CB		3 A	84		10.291	49.890	26.012	1.00 54.08	AAAA
MOTA	669	CG	ARC	3 A	84		9.050	49.552	25.196	1.00 57.10	AAAA
MOTA	670	CD	- ARG	ЭΑ	84	•.	7.856	49.239	26.085	1.00 60.71	AAAA

ATOM	671	NE	ARG	A	84	6.712	48.738	25.323	1.00 63.23	AAAA
ATOM	672	CZ	ARG	Α	84	6.110	49.415	24.348	1.00 64.01	AAAA
ATOM	673	NH1	ARG		84	6.538	50.625	24.007		
ATOM	674		ARG		84	5.076			1.00 62.94	AAAA
ATOM	675	C	ARG		84		48.880	23.713	1.00 64.10	AAAA
ATOM	676	0				12.753	50.388	26.011	1.00 53.35	AAAA
			ARG		84	13.241	51.512	25.855	1.00 52.81	AAAA
ATOM	677	N	GLY		85	13.232	49.519	26.889	1.00 54.22	AAAA
ATOM	678	CA	GLY	A.	85	14.357	49.885	27.716	1.00 54.55	AAAA
ATOM	679	С	$\operatorname{GLY}$	Α	85	13.908	50.709	28.900	1.00 55.74	AAAA
ATOM	680	0	GLY	Α	85	14.578	51.668	29.277	1.00 54.93	AAAA
ATOM	681	N	ASN	Α	86	12.766	50.350	29.478	1.00 56.91	AAAA
ATOM	682	CA	ASN	Α	86	12.261	51.072	30.637		
ATOM	683	CB	ASN		86	10.974			1.00 60.87	AAAA
ATOM	684	CG	ASN				50.440	31.174	1.00 61.88	AAAA
ATOM					86	9.830	50.506	30.185	1.00 63.80	AAAA
	685		ASN		86	9.711	51.466	29.419	1.00 65.19	AAAA
ATOM	686		ASN		86	8.963	49.496	30.212	1.00 63.96	AAAA
ATOM	687	С	ASN		86	13.328	50.983	31.710	1.00 62.78	AAAA
ATOM	688	0	ASN	Α	86	13.601	51.953	32.413	1.00 64.09	AAAA
ATOM	689	N	MET	A	87	13.928	49.801	31.819	1.00 64.05	AAAA
ATOM	690	CA	MET	A	87	14.970	49.536	32.798	1.00 64.43	AAAA
ATOM	691	CB	MET	Α	87	14.411	48.576	33.872		
ATOM	692	CG	MET		87	12.999			1.00 65.87	AAAA
ATOM	693	SD	MET		87		49.026	34.375	1.00 70.44	AAAA
ATOM	694					12.282	48.384	35.950	1.00 72.95	AAAA
		CE	MET		87	11.744	46.736	35.421	1.00 74.32	AAAA
ATOM	695	C	MET		87	16.164	48.960	32.029	1.00 63.31	AAAA
ATOM	696	0	MET	Α	87	15.987	48.153	31.121	1.00 63.10	AAAA
ATOM	697	И	TYR	Α	88	17.373	49.404	32.369	1.00 62.65	AAAA
ATOM	698	CA	TYR	Α	88	18.593	48.963	31.682	1.00 61.18	AAAA
ATOM	699	CB	TYR		88	19.588	50.126	31.558	1.00 63.80	
ATOM	700	CG	TYR		88	19.101	51.351	30.807	1.00 65.69	AAAA
ATOM	701	CD1			88	19.924				AAAA
ATOM	702	CE1	TYR		88		52.471	30.666	1.00 66.17	AAAA
ATOM	703					19.487	53.608	29.994	1.00 67.22	AAAA
ATOM					88	17.824	51.401	30.250	1.00 66.61	AAAA
	704		TYR		88	17.376	52.536	29.574	1.00 68.05	AAAA
ATOM	705	CZ	TYR		88	18.211	53.636	29.449	1.00 68.49	AAAA
ATOM	706	OH	TYR	A	88	17.766	54.760	28.783	1.00 67.94	AAAA
ATOM	707	C	TYR	Α	88	19.334	47.801	32.340	1.00 58.76	AAAA
ATOM	708	0	TYR	Α	88	18.921	47.285	33.373	1.00 59.04	AAAA
ATOM	709	N	TYR	Α	89	20.442	47.411	31.716	1.00 56.09	
ATOM	710	CA	TYR	А	89	21.313	46.343	32.201		AAAA
ATOM	711	CB	TYR		89	21.447			1.00 54.47	AAAA
ATOM	712	CG	TYR		89		45.229	31.162	1.00 49.44	AAAA
ATOM	713					22.490	44.196	31.533	1.00 43.39	AAAA
			TYR		89	22.256	43.291	32.555	1.00 41.39	AAAA
ATOM	714		TYR		89	23.236	42.402	32.967	1.00 39.89	AAAA
ATOM	715		TYR		89	23.740	44.180	30.917	1.00 41.69~	· AAAA
ATOM	716		TYR	Α	89	24.735	43.291	31.320	1.00 39.28	AAAA
ATOM	717	cz	TYR	Α	89	24.477	42.403	32.355	1.00 39.93	AAAA
ATOM	718	OH	TYR	Α	89	25.454	41.533	32.815	1.00 37.70	AAAA
ATOM	719	С	TYR	Α	89	22.693	46.956	32.426	1.00 57.46	AAAA
ATOM	720	0	TYR	Α	89	23.248	47.594	31.527	1.00 58.38	
ATOM	721	N	GLU		90	23.256	46.776	33.614	1.00 59.87	AAAA
MOTA	722	CA	GLU		90	24.577	47.336			AAAA
ATOM	723	CB	GLU		90			33.894	1.00 62.35	AAAA
ATOM	724	CG				25.618	46.669	32.986	1.00 62.78	AAAA
ATOM			GLU		90	27.065	46.887	33.394	1.00 65.44	AAAA
	725	CD	GLU		90	28.042	46.545	32.275	1.00 67.34	AAAA
ATOM	726		GLU		90	27.927	45.438	31.702	1.00 67.54	AAAA
ATOM	727	OE2	GLU	Α	90	28.926	47.381	31.972	1.00 66.26	AAAA
ATOM	728	С	GLU	A	90	24.582	48.865	33.673	1.00 63.40	AAAA
ATOM	729	0	GLU	Α	90	25.555	49.434	33.169	1.00 63.23	AAAA
ATOM	730	N	ASN		91	23.475	49.514	34.032		
ATOM	731	CA	ASN		91	23.334			1.00 63.77	AAAA
ATOM	732	CB	ASN				50.970	33.916	1.00 64.49	AAAA
ATOM	733				91	24.480	51.658	34.678	1.00 65.78	AAAA
		CG	ASN		91	24.387	51.470	36.189	1.00 66.86	AAAA
MOTA	734		ASN		91	25.385	51.591	36.900	1.00 67.90	AAAA
MOTA	735		ASN		91	23.186	51.192	36.685	1.00 66.86	AAAA
ATOM	736	С	ASN	Α	91	23.220	51.604	32.518	1.00 63.51	AAAA
ATOM	737	0	ASN		91	22.543	52.623	32.357	1.00 62.67	AAAA
ATOM	738	N	SER		92	23.859	51.022	31.509	1.00 62.59	
ATOM	739	CA	SER		92	23.812				AAAA
ATOM	740	CB	SER		92		51.618	30.171	1.00 61.36	AAAA
ATOM	741	OG				25.235	51.901	29.680	1.00 62.19	AAAA
			SER		92	25.880	52.885	30.464	1.00 67.78	AAAA
ATOM	742	C	SER		92	23.090	50.893	29.034	1.00 59.28	AAAA
ATOM	743	0	SER		92	22.708	51.534	28.056	1.00 59.15	AAAA
ATOM	744	N	TYR		93	22.881	49.585	29.152	1.00 56.42	AAAA
ATOM	745	CA	TYR	Α	93	22.300	48.836	28.043	1.00 52.13	AAAA
										* = 1/3/3

ATOM	746	СВ	TYR	Δ	93		23.231	47.679	27.698	1.00 52.61	AAAA
	747	CG	TYR		93		24.665	48.097	27.554	1.00 53.05	AAAA
ATOM								47.807	28.547	1.00 53.91	AAAA
ATOM	748		TYR		93		25.599				AAAA
ATOM	749		TYR		93		26.918	48.220	28.431	1.00 54.47	
ATOM	750	CD2	TYR	Α	93		25.086	48.813	26.439	1.00 53.37	AAAA
MOTA	751	CE2	TYR	А	93		26.399	49.232	26.312	1.00 55.19	AAAA
ATOM	752	CZ	TYR	А	93		27.311	48.929	27.309	1.00 54.48	AAAA
	753	ОН	TYR		93		28.619	49.311	27.158	1.00 56.08	AAAA
ATOM									28.061	1.00 50.04	AAAA
ATOM	754	С	TYR		93		20.888	48.291			
ATOM	755	0	TYR	А	93		20.430	47.722	29.053	1.00 49.81	AAAA
ATOM	756	N	ALA	A	94		20.228	48.438	26.912	1.00 47.51	AAAA
ATOM	757	CA	ALA	А	94		18.873	47.936	26.693	1.00 43.79	AAAA
ATOM	758	СВ	ALA		94		18.095	48.908	25.820	1.00 43.44	AAAA
					94		19.008	46.580	25.983	1.00 41.77	AAAA
MOTA	759	С	ALA							1.00 38.68	AAAA
MOTA	760	0	ALA		94		18.089	45.752	26.006		
ATOM	761	N	LEU	Α	95		20.168	46.378	25.348	1.00 39.80	AAAA
MOTA	762	CA	LEU	Α	95		20.489	45.145	24.625	1.00 38.41	AAAA
ATOM	763	CB	LEU	А	95		20.215	45.296	23.124	1.00 36.65	AAAA
ATOM	764	CG	LEU		95		20.638	44.081	22.285	1.00 35.57	AAAA
									22.579	1.00 36.04	AAAA
ATOM	765		LEU		95		19.696	42.907			
ATOM	766	CD2	LEU	A	95		20.607	44.418	20.802	1.00 34.75	AAAA
ATOM	767	С	LEU	Α	95		21.961	44.772	24.819	1.00 37.96	AAAA
ATOM	768	0	LEU	Α	95		22.854	45.460	24.323	1.00 36.46	AAAA
ATOM	769	N	ALA		96		22.197	43.672	25.533	1.00 37.12	AAAA
			ALA				23.543	43.185	25.804	1.00 35.22	AAAA
MOTA	770	CA			96					1.00 33.69	AAAA
ATOM	771	CB	ALA		96		23.848	43.311	27.290		
ATOM	772	С	ALA	А	96		23.666	41.732	25.365	1.00 35.12	AAAA
ATOM	773	0	ALA	Α	96		22.939	40.865	25.846	1.00 35.74	AAAA
ATOM	774	N	VAL	Α	97		24.590	41.476	24.445	1.00 34.87	AAAA
ATOM	775	CA	VAL		97		24.830	40.133	23.920	1.00 33.29	AAAA
					97		24.600	40.119	22.399	1.00 31.67	AAAA
ATOM	776	CB	VAL							1.00 29.99	AAAA
MOTA	777		VAL		97		24.845	38.729	21.838		
ATOM	778	CG2	VAL	Α	97		23.168	40.587	22.108	1.00 30.30	AAAA
MOTA	779	С	VAL	Α	97		26.270	39.779	24.246	1.00 34.76	AAAA
ATOM	780	0	VAL	Α	97		27.193	40.210	23.550	1.00 37.75	AAAA
ATOM	781	N	LEU		98		26.463	38.975	25.284	1.00 35.01	AAAA
							27.807	38.649	25.737	1.00 36.69	AAAA
ATOM	782	CA	LEU		98						AAAA
MOTA	783	CB	LEU		98		28.035	39.301	27.094	1.00 36.04	
ATOM	784	CG	LEU	Α	98		27.338	40.623	27.360	1.00 35.24	AAAA
ATOM	785	CD1	LEU	Α	98		27.343	40.871	28.847	1.00 33.03	AAAA
ATOM	786	CD2	LEU	Α	98		28.028	41.737	26.583	1.00 33.58	AAAA
ATOM	787	C	LEU		98		28.243	37.206	25.897	1.00 39.42	AAAA
					98		27.474	36.365	26.349	1.00 40.37	AAAA
MOTA	788	0	LEU							1.00 41.73	AAAA
MOTA	789	N	SER		99		29.518	36.967	25.579		
ATOM	790	CA	SER	. A	99		30.186	35.674	25.736	1.00 43.78	AAAA
ATOM	791	CB	SER	. A	99		30.656	35.528	27.185	1.00 43.79	AAAA
ATOM	792	OG	SER	A	99		31.400	36.666	27.584	1.00 45.75	AAAA
MOTA	793	С	SER	А	99		29.346	34.473	25.380	1.00 44.83	AAAA
ATOM	794	ō	SER		99		29.136	33.583	26.210	1.00 45.09	AAAA
							28.887	34.434	24.141	1.00 45.48	AAAA
MOTA	795	И			100					1.00 47.27	AAAA
ATOM	796	CA			100		28.038	33.350	23.711		
ATOM	797	CB	ASN	Α	100		26.938	33.919	22.822	1.00 45.75	AAAA
ATOM	798	CG	ASN	Α	100		25.954	34.762	23.607	1.00 45.34	AAAA
ATOM	799	OD1	ASN				25.161	34.240	24.385	1.00 45.15	AAAA
ATOM	800		ASN				26.013	36.073	23.421	1.00 46.67	AAAA
		C			100		28.765	32.197	23.036	1.00 49.78	AAAA
MOTA	801								21.816	1.00 49.18	AAAA
MOTA	802	0			100		28.722	32.039			
ATOM	803	N	TYP	: A	101		29.432	31.393	23.861	1.00 53.86	AAAA
ATOM	804	CA	TYF	A	101		30.173	30.211	23.420	1.00 58.25	AAAA
MOTA	805	CB	TYF	: A	101		31.229	30.575	22.368	1.00 58.13	AAAA
MOTA	806	CG			101		32.397	31.349	22.919	1.00 60.01	AAAA
							33.704	30.882	22.758	1.00 61.42	AAAA
MOTA	807		TYF					31.564	23.317	1.00 61.62	AAAA
MOTA	808		TYF				34.790				
MOTA	809		TYF				32.199	32.525	23.647	1.00 60.57	AAAA
MOTA	810	CE2	TYF	A S	101		33.272	33.211	24.209	1.00 61.42	AAAA
MOTA	811	CZ	TYF	R A	101		34.562	32.724	24.042	1.00 61.86	AAAA
ATOM	812	OH			101		35.617	33.390	24.613	1.00 63.11	AAAA
		C			101		30.852	29.611	24.644	1.00 60.78	AAAA
MOTA	813								25.768	1.00 59.24	AAAA
MOTA	814	0			101		30.619	30.060			
MOTA	815	N			102		31.688	28.599	24.426	1.00 65.57	AAAA
ATOM	816	CA	ASI	? A	102		32.408	27.944	25.521	1.00 69.51	AAAA
ATOM	817	CB			102		32.021	26.462	25.606	1.00 69.63	AAAA
ATOM	818	CG			102		32.243	25.719	24.304	1.00 70.05	AAAA
								24.490			AAAA
ATOM	819				102		32.032				AAAA
ATOM	820	OD2	∠ ASI	A ب	102	•	32.628	26.355	23.302	1.00 /0.10	TATA AC

ATOM	821	С	ASI	? ?	102	33.920	2	8.082	25.349	1.0	0 71.94	AAAA
ATOM	822	0			102	34.479		9.168	_		0 73.10	
ATOM	823	N	ALA	A	103	34.582		6.979				AAAA
ATOM	824	CA	ALA	Δ Δ	103	36.025		6.995			0 74.58	AAAA
ATOM	825		AT.Z	. 2	103						0 76.85	AAAA
ATOM	826		אד ז	י בי	103	36.643		5.712			0 76.89	AAAA
ATOM			ALL		103	36.313		7.132		1.0	0 78.13	AAAA
	827	0			103	36.608		6.143	22.638	1.0	0 77.63	AAAA
ATOM	828	N	ASN	A	104	36.218	3 2	3.364	22.810	1.0	0 80.13	AAAA
ATOM	829	CA			104	36.443	3 2	3.684	21.395		0 81.57	AAAA
ATOM	830	CB	ASN	ΙA	104	37.911	. 2	9.072	21.151		0 83.37	
ATOM	831	CG			104	38.262		0.438	21.726			AAAA
ATOM	832	OD1	ASN	A	104	37.541	-	1.420			0 85.20	AAAA
MOTA	833		ASN			39.380					0 86.49	AAAA
ATOM	834	C			104			0.510	22.445		0 84.95	AAAA
ATOM	835	ŏ				36.047		7.543	20.460		0 81.46	AAAA
ATOM					104	36.579		7.403	19.353		0 82.36	AAAA
	836	N			105	35.100		5.733	20.910	1.0	0 80.04	AAAA
ATOM	837	CA			105	34.633	25	5.605	20.130	1.0	0 78.24	AAAA
MOTA	838	CB	LYS	Α	105	34.379	24	.409	21.053		0 80.51	AAAA
ATOM	839	CG	LYS	Α	105	34.035	2:	3.105	20.337		0 82.67	AAAA
ATOM	840	CD	LYS	Α	105	33.867		. 957	21.334		0 84.52	
ATOM	841	CE			105	35.165		677	22.087			AAAA
ATOM	842	NZ			105	34.979					0 84.21	AAAA
ATOM	843	C			105			675	23.174		0 84.79	AAAA
ATOM	844	ō			105	33.352		. 998	19.408		75.68	AAAA
ATOM	845					33.373		.347	18.223		75.44	AAAA
ATOM		И			106	32.241		957	20.136	1.00	71.44	AAAA
	846	CA			106	30.949		.289	19.564	1.00	66.74	AAAA
ATOM	847	CB			106	30.016	25	.046	19.562	1.00	67.32	AAAA
MOTA	848	OG1	THR	Α	106	29.647	24	.700	20.904		67.36	AAAA
ATOM	849	CG2	THR	Α	106	30.732	23	.862	18.938		66.70	AAAA
ATOM	850	C	THR	Α	106	30.284		.435	20.315		62.38	
ATOM	851	0			106	30.576		.679	21.485			AAAA
ATOM	852	N			107	29.391					61.07	AAAA
ATOM	853	CA			107			.139	19.628		58.51	AAAA
ATOM	854	C				28.702		.258	20.242		52.88	AAAA
ATOM	855				107	27.511		.739	19.438	1.00	49.01	AAAA
		0			107	27.156		.150	18.415	1.00	48.74	AAAA
ATOM	856	N			108	26.885	30	.808	19.916	1.00	46.00	AAAA
ATOM	857	CA			108	25.725	31	.388	19.255		41.63	AAAA
ATOM	858	CB	LEU	A	108	25.218	32	. 590	20.038		39.78	AAAA
ATOM	859	CG			108	24.100		.371	19.364		38.12	AAAA
ATOM	860	CD1	LEU	Α	108	22.888		.479	19.160		38.86	
ATOM	861		LEU			23.757		. 564	20.220			AAAA
ATOM	862	С			108	26.113		.807			38.65	AAAA
ATOM	863	ō	LEU			26.986			17.851		41.81	AAAA
ATOM	864	N			109			.646	17.652		38.42	AAAA
-ATOM		EA				25.444		.214	16.872	1.00	43.34	AAAA
ATOM						25-7-48-			15 - 4-87 -	1.00	-4375 -	- AAAA -
	866	CB	LYS			25.772	30	.184	14.709	1.00	45.59	AAAA
ATOM	867	CG	LYS			26.421	30	.262	13.353	1.00	49.19	AAAA
ATOM	868	CD	LYS			26.811	28	.872	12.860		54.32	AAAA
ATOM	86 <b>9</b>	CE	LYS	Α	109	25.596	27	. 971	12.639		56.21	AAAA
ATOM	870	NZ	LYS	Α	109	24.678	28	. 531	11.610		55.21	AAAA
ATOM	871	С	LYS			24.773		. 485	14.855		42.98	
ATOM	872	0	LYS			25.188		.490				AAAA
ATOM	873	N	GLU			23.479		.219	14.286		43.41	AAAA
ATOM	874	CA	GLU			22.507			14.968		40.78	AAAA
ATOM	875	CB	GLU					.108	14.362		41.64	AAAA
ATOM	876					21.794	32	. 359	13.225		42.58	AAAA
		CG	GLU			21.287		. 991	13.626	1.00	47.93	AAAA
ATOM	877	CD	GLU	Α	110	21.196	29	. 993	12.464	1.00	50.42	AAAA
ATOM	878	OE1	GLU	A	110	22.241	29	.706	11.831		51.30	AAAA
ATOM	879	OE2	GLU	А	110	20.080	29	. 482	12.199		51.75	AAAA
ATOM	880	С	GLU	Α	110	21.512		.728	15.352		40.17	AAAA
ATOM	881	0	GLU	Α	110	21.019		. 061	16.255		41.50	
MOTA	882	N	LEU			21.250		. 021	15.183			AAAA
MOTA	883	CA	LEU	Δ	111	20.331		.773	-		37.15	AAAA
ATOM	884	CB	LEU	7	111				16.038		35.88	AAAA
ATOM	885	CG	LEU	Λ. 7	111	21.149		. 680	16.971		33.00	AAAA
ATOM	886		TEU	A.	TTT	20.478		. 526	18.061		31.16	AAAA
		CDT	LEU	A	TTJ	19.678		. 651	19.026		27.07	AAAA
ATOM	887		LEU	А	111	21.561	38.	. 293	18,799		27.37	AAAA
ATOM	888	С	LEU	А	111	19.495	36	604	15.063		35.67	AAAA
ATOM	889	0	LEU	Α	111	19.631		814	14.987	1.00	34.90	AAAA
MOTA	890	N	PRO	А	112	18.615		943	14.297		35.91	
ATOM	891	CD	PRO	А	112	18.319		504				AAAA
ATOM	892	CA	PRO						14.426		34.45	AAAA
ATOM	893	CB	PRO	Δ.	112	17.746		558	13.293		34.74	AAAA
ATOM	894	CG				17.169		342	12.582		34.47	AAAA
			PRO			17.005		368	13.703	1.00	33.10	AAAA
ATOM	895	С	PRO	A	112	16.665	37.	532	13.757		35.58	AAAA
											_	

ATOM	896 O	PRO A 112	15.474	37.296	13.531	1.00 37.27	AAAA
ATOM	897 N	MET A 113	17.067	38.641	14.369	1.00 34.99	AAAA
ATOM	898 CA	MET A 113	16.088	39.616	14.848	1.00 36.65	AAAA
ATOM	899 CB	MET A 113	16.625	40.336	16.095	1.00 34.70	AAAA
ATOM	900 CG	MET A 113	16.941	39.399	17.268	1.00 33.74	<b>AAA</b> A <b>AAA</b> A
ATOM	901 SD	MET A 113	17.417	40.236	18.806	1.00 36.52 1.00 30.64	AAAA
ATOM	902 CE	MET A 113	18.929	41.042	18.312	1.00 38.06	AAAA
ATOM	903 C	MET A 113	15.740	40.614 41.831	13.738 13.902	1.00 37.27	AAAA
ATOM	904 0	MET A 113	15.867 15.275	40.070	12.615	1.00 39.25	AAAA
ATOM	905 N	ARG A 114 ARG A 114	14.925	40.848	11.424	1.00 40.45	AAAA
ATOM	906 CA 907 CB	ARG A 114	14.659	39.907	10.259	1.00 39.26	AAAA
MOTA MOTA	908 CG	ARG A 114	13.397	39.131	10.427	1.00 39.83	AAAA
MOTA	909 CD	ARG A 114	13.643	37.693	10.108	1.00 40.56	AAAA
ATOM	910 NE	ARG A 114	12.440	36.888	10.258	1.00 40.35	AAAA
ATOM	911 CZ	ARG A 114	12.416	35.575	10.079	1.00 41.43	дада дада
MOTA		ARG A 114	13.534	34.935	9.751	1.00 40.24 1.00 41.08	AAAA
ATOM		2 ARG A 114	11.281	34.906	10.208	1.00 40.83	AAAA
ATOM	914 C	ARG A 114	13.749	41.810 42.429	11.542 10.552	1.00 42.04	AAAA
ATOM	915 O	ARG A 114	13.365 13.178	41.935	12.735	1.00 40.74	AAAA
MOTA	916 N 917 CA	ASN A 115 ASN A 115	12.066	42.852	12.953	1.00 40.11	AAAA
ATOM ATOM	917 CA 918 CB	ASN A 115	10.797	42.073	13.280	1.00 40.28	AAAA
ATOM	919 CG	ASN A 115	10.284	41.289	12.105	1.00 39.74	AAAA
ATOM		L ASN A 115	9.645	40.251	12.269	1.00 40.28	AAAA
ATOM		2 ASN A 115	10.549	41.786	10.905	1.00 41.06	AAAA AAAA
ATOM	922 C	ASN A 115	12.384	43.812	14.095	1.00 41.55	AAAA
MOTA	923 O	ASN A 115	11.530	44.577	14.538	1.00 39.96 1.00 43.33	AAAA
ATOM	924 N	LEU A 116	13.617	43.766 44.646	14.581 15.667	1.00 44.32	AAAA
ATOM	925 CA		13.991 15.260	44.159	16.357	1.00 44.21	AAAA
ATOM	926 CB	LEU A 116	15.627	44.944	17.616	1.00 44.20	AAAA
ATOM	927 CG 928 CD	LEU A 116 1 LEU A 116	14.439	44.966	18.575	1.00 42.58	AAAA
ATOM ATOM		2 LEU A 116	16.853	44.311	18.265	1.00 45.12	AAAA
MOTA	930 C	LEU A 116	14.215	46.004	15.058	1.00 46.03	AAAA
MOTA	931 0	LEU A 116	15.335	46.367	14.684	1.00 45.09	AAAA
ATOM	932 N	GLN A 117	13.134	46.761	14.955	1.00 48.45	AAAA AAAA
ATOM	933 CA		13.224	48.077	14.367	1.00 51.34 1.00 51.64	AAAA
MOTA	934 CB		11.978	48.367 48.039	13.542 12.064	1.00 53.38	AAAA
ATOM	935 CG		12.150 11.135	47.037	11.580	1.00 54.82	AAAA
MOTA	936 CE 937 OE	GLN A 117 1 GLN A 117	10.084	46.860	12.193	1.00 57.17	AAAA
ATOM ATOM		2 GLN A 117	11.431	46.386	10.467	1.00 55.76	AAAA
ATOM	939 C	GLN A 117	13.465	49.198	15.353	1.00 52.63	AAAA
ATOM	940 O	GLN A-1:17-	1·3·. 963·	-50.254		-1.00-52-61	AAAA AAAA
ATOM	941 N	GLU A 118	13.148	48.985	16.626	1.00 53.82 1.00 55.04	AAAA
MOTA	942 CF		13.370	50.071 51.021	17.569 17.523	1.00 57.91	AAAA
MOTA	943 CE		12.171 12.463	52.382	18.129	1.00 61.74	AAAA
ATOM	944 C0 945 CI		11.484	53.447	17.692	1.00 64.10	AAAA
MOTA MOTA		1 GLU A 118	11.688	54.617	18.082	1.00 68.14	AAAA
ATOM		2 GLU A 118	10.518	53.125	16.963	1.00 64.36	AAAA
ATOM	948 C	GLU A 118	13.728	49.786		1.00 53.78	AAAA
ATOM	949 O	GLU A 118	13.185	48.893		1.00 52.95 1.00 52.65	AAAA AAAA
MOTA	950 N	ILE A 119	14.668			1.00 52.03	AAAA
ATOM	951 C		15.132 16.615				AAAA
ATOM	952 CI	3 ILE A 119 G2 ILE A 119	17.114	50.286		1.00 52.17	AAAA
MOTA		32 ILE A 119	16.769				AAAA
ATOM ATOM		D1 ILE A 119	18.197		20.467	1.00 49.83	AAAA
ATOM	956 C		14.961			1.00 51.82	AAAA AAAA
ATOM	957 0	ILE A 119	15.819			1.00 50.57	AAAA AAAA
ATOM	958 N		13.831				AAAA
ATOM	959 C		13.477				AAAA
MOTA	960 C		12.142 10.950				AAAA
ATOM	961 C	G LEU A 120 D1 LEU A 120	9.685			1.00 54.68	AAAA
MOTA		D2 LEU A 120	10.763			1.00 55.00	AAAA
MOTA MOTA	964 C		14.528			1.00 53.51	AAAA
MOTA	965 C		14.895	55.341			AAAA
ATOM	966 N	HIS A 121	15.010				AAAA AAAA
ATOM	967 C	A HIS A 121	16.032				AAAA
MOTA		B HIS A 121	15.383				AAAA
MOTA		CG HIS A 121 CD2 HIS A 121	14.777 13.486				AAAA
ATOM	970 C	.DC UID W 121	20.40				

ATOM	971	ND1	HIS	A	121	15.535	56.971	26.325	1.00	58.98	AAAA
ATOM	972		HIS			14.738	58.019	26.221		59.94	AAAA
ATOM	973		HIS			13.489	57.606	26.356		60.70	AAAA
ATOM	974	C	HIS			17.136	52.963	25.642		52.79	AAAA
ATOM ATOM	975 976	O N	HIS GLY			16.928 18.316	51.755 53.472	25.563 25.977		52.60 51.58	AAAA AAAA
ATOM	977	CA	GLY			19.441	52.607	26.287		49.46	AAAA
ATOM	978	c	GLY			20.344	52.341	25.095		48.83	AAAA
ATOM	979	0	GLY			19.961	52.564	23.945		50.04	AAAA
ATOM	980	N	ALA	А	123	21.553	51.868	25.371	1.00	46.58	AAAA
ATOM	981	CA	ALA			22.511	51.554	24.324		43.97	AAAA
ATOM	982	CB	ALA			23.882	52.018	24.737		45.29	AAAA
ATOM ATOM	983 984	C 0	ALA			22.536 21.761	50.050 49.274	24.016 24.580		43.97 42.79	AAAA
ATOM	985	N	ALA VAL			23.441	49.655	23.121		43.46	AAAA AAAA
ATOM	986	CA	VAL			23.593	48.273	22.696		43.01	AAAA
ATOM	987	СВ	VAL			23.090	48.110	21.247		44.05	AAAA
ATOM	988	CG1	VAL	Α	124	23.571	46.796	20.651	1.00	42.82	AAAA
MOTA	989	CG2	VAL	A	124	21.567	48.177	21.228	1.00	44.78	AAAA
ATOM	990	C	VAL			25.053	47.834	22.778		44.24	AAAA
ATOM	991	0	VAL			25.947	48.580	22.395		45.42	AAAA
ATOM ATOM	992 993	N CA	ARG ARG			25.295 26.657	46.628 46.112	23.287 23.392		44.70 44.80	AAAA AAAA
ATOM	994	CB	ARG			27.206	46.312	24.804		46.07	AAAA
ATOM	995	CG	ARG			28.604	45.705	25.023		46.93	AAAA
ATOM	996	CD	ARG			29.023	45.821	26.491		47.55	AAAA
MOTA	997	NE	ARG	Α	125	30.007	44.817	26.889	1.00	47.14	AAAA
ATOM	998	CZ	ARG			29.952	44.158	28.045	1.00	48.96	AAAA
MOTA	999		ARG			28.967	44.403	28.902		46.39	AAAA
MOTA	1000		ARG			30.864	43.243	28.343		47.92	AAAA
ATOM ATOM	1001 1002	0			125 125	26.768 25.948	44.636 43.821	23.035 23.462		44.45 43.43	AAAA AAAA
MOTA	1003	И			126	27.798	44.316	22.251		43.85	AAAA
ATOM	1004	CA			126	28.100	42.955	21.816		43.12	AAAA
ATOM	1005	CB	PHE	Α	126	27.945	42.828	20.297		39.41	AAAA
ATOM	1006	CG			126	26.524	42.672	19.837		40.10	AAAA
ATOM	1007		PHE			25.634	43.742	19.888		40.57	AAAA
ATOM	1008		PHE			26.057	41.435	19.391		39.41	AAAA
ATOM ATOM	1009 1010		PHE			24.295 24.731	43.577 41.263	19.502 19.008		39.94 38.84	AAAA AAAA
ATOM	1011	CZ CZ			126	23.846	42.337	19.064		38.63	AAAA
ATOM	1012	C			126	29.551	42.643	22.199		45.14	AAAA
ATOM	1013	0			126	30.448	43.437	21.924		46.12	AAAA
ATOM	1014	N	SER	A	127	29.796	41.494	22.823	1.00	46.21	AAAA
MOTA	1015	CA			127	31:165				-46.54	- AAAA _
ATOM	1016	CB			127	31.524	41.783	24.547		46.20	AAAA
ATOM ATOM	1017 1018	OG C			127 127	30.940 31.411	43.062 39.656	24.678 23.311		49.70 47.29	AAAA AAAA
ATOM	1019	0			127	30.585	38.912	23.836		47.29	AAAA
ATOM	1020	N			128	32.569	39.231	22.825		47.87	AAAA
ATOM	1021	CA			128	32.973	37.833	22.884		48.54	AAAA
MOTA	1022	CB	ASN	A	128	33.331	37.455	24.327	1.00	50.53	AAAA
ATOM	1023	CG			128	34.305	38.436	24.965		51.54	AAAA
ATOM	1024		ASN			33.903	39.423	25.588		52.05	AAAA
ATOM ATOM	1025 1026	C	ASN		128	35.591 31.938	38.175 36.852	24.800 22.336		52.96 47.90	AAAA AAAA
ATOM	1027	Ö			128	31.571	35.880	22.999		49.89	AAAA
ATOM	1028	N			129	31.462	37.123	21.128		45.18	AAAA
ATOM	1029	CA			129	30.510	36.257	20.453		42.56	AAAA
MOTA	1030	CB			129	29.265	37.042	20.055		42.55	AAAA
ATOM	1031	CG			129	28.513	37.578	21.247		42.61	AAAA
ATOM	1032				129	27.933	36.821	22.020		40.20	AAAA
MOTA	1033 1034	C ND2			129	28.524	38.897	21.407		42.72	AAAA AAAA
ATOM ATOM	1034	0			129 129	31.259 30.905	35.808 36.179	19.205 18.091		42.13	AAAA
ATOM	1036	N			. 130	32.312	34.998	19.384		41.75	AAAA
ATOM	1037	CD			130	32.695	34.366	20.660		40.32	AAAA
ATOM	1038	CA			130	33.142	34.491	18.287		41.91	AAAA
MOTA	1039	CB			130	34.205	33.675	19.014		40.72	AAAA
MOTA	1040	CG			130	33.467	33.154	20.204		39.88	AAAA
ATOM	1041	C			130	32.473	33.683	17.178		43.48	AAAA
ATOM	1042 1043	O N			. 130	33.123	33.356	16.197		47.56 42.19	AAAA AAAA
ATOM ATOM	1043	CA			131	31.194 30.544	33.358 32.565	17.308 16.279		42.19	AAAA AAAA
ATOM	1045	CB			131	30.122	31.216	16.279		39.32	AAAA
							,,	_3.557			<del></del>

ATOM	1046	С	ALA A	131	29.343	33.272	15.668	1.00 43.07	AAAA
ATOM	1047	0	ALA A	. 131	28.790	32.820	14.655	1.00 43.46	AAAA
ATOM	1048	N	LEU A	132	28.942	34.385	16.277	1.00 42.76	AAAA
ATOM	1049	CA	LEU A		27.795	35.128	15.790	1.00 42.69	AAAA
MOTA	1050	CB	LEU A		27.491	36.299	16.721	1.00 41.21	AAAA
ATOM	1051	CG	LEU A		26.152	36.971	16.419	1.00 40.03	AAAA AAAA
ATOM	1052		LEU A		25.056	35.942 38.087	16.500 17.399	1.00 39.56 1.00 40.70	AAAA
ATOM ATOM	1053 1054	CD2	LEU A		25.891 28.037	35.634	14.375	1.00 44.13	AAAA
ATOM	1055	0	LEU A		29.037	36.290	14.104	1.00 45.92	AAAA
ATOM	1056	N	CYS A		27.110	35.335	13.475	1.00 45.62	AAAA
ATOM	1057	CA	CYS A		27.230	35.755	12.086	1.00 47.04	AAAA
ATOM	1058	С	CYS A	133	26.291	36.891	11.697	1.00 47.56	AAAA
MOTA	1059	0	CYS A		25.170	36.988	12.209	1.00 47.19	AAAA
ATOM	1060	CB	CYS P		26.939	34.584	11.145	1.00 50.19	AAAA
ATOM	1061	SG	CYS A		28.154	33.232 37.736	11.102 10.782	1.00 51.23 1.00 46.25	AAAA AAAA
ATOM ATOM	1062 1063	N CA	ASN A		26.767 25.991	38.846	10.782	1.00 45.36	AAAA
ATOM	1064	CB	ASN A		24.686	38.298	9.643	1.00 44.47	AAAA
ATOM	1065	CG	ASN A		24.919	37.200	8.635	1.00 46.53	AAAA
ATOM	1066		ASN A		24.440	36.077	8.801	1.00 47.70	AAAA
ATOM	1067	ND2	ASN A	134	25.666	37.513	7.579	1.00 45.36	AAAA
MOTA	1068	Ç	ASN A	134	25.660	40.085	11.054	1.00 45.36	AAAA
ATOM	1069	0	ASN A		25.640	41.189	10.517	1.00 44.33	AAAA
ATOM	1070	N	VAL A		25.401	39.929	12.347	1.00 46.12	AAAA
ATOM	1071	CA	VAL A		25.027	41.086 40.764	13.150	1.00 46.02 1.00 45.53	AAAA AAAA
ATOM ATOM	1072 1073	CB CC1	VAL A		24.995 24.473	41.966	14.650 15.413	1.00 45.33	AAAA
ATOM	1073		VAL A		24.094	39.570	14.904	1.00 45.33	AAAA
ATOM	1075	C	VAL A		25.909	42.299	12.924	1.00 46.05	AAAA
ATOM	1076	Ō	VAL A		25.436	43.430	12.985	1.00 44.84	AAAA
ATOM	1077	N	GLU A	136	27.185	42.061	12.644	1.00 47.93	AAAA
ATOM	1078	CA	GLU F		28.135	43.152	12.401	1.00 49.67	AAAA
ATOM	1079	CB	GLU A		29.513	42.587	12.021	1.00 50.13	AAAA AAAA
ATOM	1080	CG	GLU F		29.504 30.890	41.597 41.092	10.853 10.504	1.00 52.05 0.01 52.11	AAAA
ATOM ATOM	1081 1082	CD OE 1	GLU A		31.538	40.474	11.375	0.01 52.47	AAAA
ATOM	1083		GLU A		31.333	41.314	9.357	0.01 52.51	AAAA
ATOM	1084	С	GLU A	136	27.657	44.109	11.306	1.00 49.47	AAAA
ATOM	1085	0	GLU A		27.812	45.327	11.421	1.00 50.68	AAAA
ATOM	1086	N	SER A		27.053	43.545	10.265	1.00 47.85	AAAA AAAA
ATOM ATOM	1087 1088	CA CB	SER A		26.564 26.163	44.313 43.370	9.130 7.999	1.00 46.41 1.00 46.12	AAAA
ATOM	1089	OG	SER A		24.879	42.803	8.234	1.00 46.02	AAAA
ATOM	1090	C		A 137 ···	25.373	45.201	9.444	1.00-46.58	AAAA
ATOM	1091	0	SER A	137	24.923	45.955	8.584	1.00 47.58	AAAA
MOTA	1092	N		138	24.855	45.115	10.661	1.00 46.72	AAAA
ATOM	1093	CA		138	23.687	45.903	11.030 12.310	1.00 46.68 1.00 45.26	<b>AAAA</b> AAAA
ATOM ATOM	1094 1095	CB CG2	ILE A	138	23.027 21.988	45.335 46.310	12.310	1.00 41.83	AAAA
ATOM	1096		ILE A		22.392	43.982	11.979	1.00 44.12	AAAA
ATOM	1097		ILE A		21.459	44.018	10.780	1.00 41.26	AAAA
ATOM	1098	C	ILE A	138	23.956	47.383	11.211	1.00 48.72	AAAA
ATOM	1099	0		A 138	24.991	47.773	11.754	1.00 50.14	AAAA
ATOM	1100	N		A 139	23.013	48.199	10.736	1.00 50.31 1.00 51.22	дада дада
ATOM	1101	CA CB		A 139 A 139	23.095 22.585	49.656 50.306	10.834 9.537	1.00 51.22	AAAA
ATOM ATOM	1102 1103	CG		A 139	23.383	49.886	8.314	1.00 52.42	AAAA
ATOM	1104	CD		A 139	22.890	50.505	7.016	1.00 53.35	AAAA
ATOM	1105		GLN A		21.725	50.370	6.646	1.00 54.43	AAAA
ATOM	1106	NE2	GLN A	A 139	23.790	51.174	6.307	1.00 54.58	AAAA
MOTA	1107	С		A 139	22.230	50.078	12.011	1.00 51.03	AAAA
ATOM	1108	0		A 139	21.040	50.351	11.856	1.00 50.84	AAAA
ATOM	1109	И		A 140	22.838	50.125	13.192	1.00 51.64 1.00 52.82	AAAA AAAA
ATOM ATOM	1110 1111	CA CB		A 140 A 140	22.122 23.010	50.482	14.410 15.628	1.00 32.82	AAAA
ATOM	1112	CG		A 140	23.393	48.796	15.771	1.00 44.18	AAAA
ATOM	1113		TRP		22.605	47.758	16.356	1.00 39.87	AAAA
ATOM	1114		TRP		23.329	46.561	16.227	1.00 37.34	AAAA
ATOM	1115	CE3	TRP	A 140	21.353	47.726	16.977	1.00 40.55	AAAA
ATOM	1116		TRP		24.537	48.199	15.320	1.00 43.32	AAAA
ATOM	1117		TRP		24.504	46.857	15.590	1.00 40.80	AAAA AAAA
ATOM ATOM	1118 1119		TRP I		22.847 20.872	45.345 46.517	16.695 17.443	1.00 38.78 1.00 39.65	AAAA
ATOM	1120		TRP		21.619	45.341	17.300	1.00 40.50	AAAA

ATOM	1121	C	TRP	Α	140	2	21.579	51.906	14.453	1.00 56.53	AAAA
ATOM	1122	0	TRP			2	0:699	52.215	15.267	1.00 57.49	AAAA
ATOM	1123	N	ARG				2.086	52.774	13.582	1.00 59.25	AAAA
ATOM	1124	CA	ARG				21.615	54.147	13.567	1.00 61.26	AAAA
ATOM	1125	CB	ARG				22.457	55.008	12.624	1.00 65.01	AAAA
ATOM	1126	CG	ARG				22.094	56.483	12.710	1.00 70.28	AAAA
ATOM	1127	CD	ARG				22.944	57.350	11.805	1.00 76.23	AAAA
ATOM	1128	NE	ARG				22.727	57.065	10.390	1.00 80.59	AAAA
ATOM	1129	CZ	ARG				23.299	57.744	9.401	1.00 82.40	AAAA
ATOM	1130		ARG				24.122	58.752	9.676	1.00 83.69	AAAA
ATOM	1131		ARG				23.053	57.416	8.140	1.00 82.50	AAAA
ATOM	1132	C			141		20.155	54.202	13.145	1.00 60.75	AAAA
ATOM	1133	Ö			141		19.543	55.266	13.148	1.00 61.56	AAAA
ATOM	1134	N			142		19.594	53.055	12.785	1.00 59.74	AAAA
ATOM	1135	CA			142		18.201	53.006	12.703	1.00 59.86	AAAA
ATOM	1136	CB			142		18.033	52.194	11.091	1.00 59.54	AAAA
ATOM	1137	CG			142		16.645	52.346	10.484	1.00 60.27	AAAA
ATOM	1138		ASP				16.408	53.363	9.798	1.00 62.20	AAAA
	1139		ASP				15.784	51.469	10.704	1.00 58.93	AAAA
MOTA					142					1.00 60.91	AAAA
MOTA	1140	C					17.364	52.363	13.467		AAAA
MOTA	1141	0			142		16.134	52.326	13.376	1.00 61.79	
ATOM	1142	N			143		18.024	51.854	14.502	1.00 60.93	AAAA
ATOM	1143	CA			143		17.301	51.194	15.575	1.00 61.69	AAAA
MOTA	1144	CB			143		17.784	49.736	15.762	1.00 59.26	AAAA
ATOM	1145		ILE				17.008	49.078	16.891	1.00 57.33	AAAA
ATOM	1146		ILE				17.606	48.953	14.459	1.00 57.45	AAAA
ATOM	1147		ILE				18.105	47.528	14.508	1.00 55.71	AAAA
ATOM	1148	С			143		17.386	51.896	16.920	1.00 64.50	AAAA
ATOM	1149	0			143		16.401	51.933	17.656	1.00 64.67	AAAA
ATOM	1150	N			144		18.550	52.456	17.242	1.00 67.48	AAAA
ATOM	1151	CA			144		18.737	53.109	18.537	1.00 70.67	AAAA
ATOM	1152	CB			144		20.045	52.627	19.210	1.00 69.51	AAAA
MOTA	1153		VAL				20.107	51.109	19.180	1.00 69.55	AAAA
MOTA	1154		VAL				21.251	53.224	18.517	1.00 69.38	AAAA
MOTA	1155	С	VAL	Α	144		18.737	54.631	18.520	1.00 73.60	AAAA
ATOM	1156	0	VAL	Α	144		19.344	55.256	17.654	1.00 74.34	AAAA
ATOM	1157	N	SER	Α	145		18.057	55.222	19.498	1.00 77.74	AAAA
MOTA	1158	CA	SER	A	145		17.974	56.673	19.604	1.00 81.10	AAAA
MOTA	1159	CB	SER	A	145		17.336	57.074	20.932	1.00 81.01	AAAA
ATOM	1160	OG	SER	A	145		16.015	56.579	21.028	1.00 80.94	AAAA
ATOM	1161	С	SER	A	145		19.356	57.296	19.494	1.00 83.67	AAAA
ATOM	1162	0	SER	A	145		20.312	56.830	20.116	1.00 83.51	AAAA
MOTA	1163	N	SER	A	146		19.449	58.349	18.692	1.00 87.26	AAAA
MOTA	1164	CA	SER	A	146		20.703	59.060	18.470	1.00 90.66	AAAA
ATOM	1165	CB	SER	A	146	•	20.424	60.342	17.690	-1.00 90.18	· AAAA
ATOM	1166	OG	SER	A	146		19.315	61.026	18.245	1.00 90.84	AAAA
ATOM	1167	C	SER	A	146		21.422	59.389	19.773	1.00 92.81	AAAA
ATOM	1168	0	SER	A	146		22.650	59.342	19.851	1.00 92.50	AAAA
MOTA	1169	N	ASF	Ά	147		20.649	59.718	20.798	1.00 95.89	AAAA
ATOM	1170	CA	ASE	Α	147		21.213	60.053	22.093	1.00 99.48	AAAA
ATOM	1171	CB	ASE	Α	147		20.188	60.841	22.916	1.00100.90	AAAA
MOTA	1172	CG	ASE	A	147		18.823	60.175	22.946	1.00102.34	AAAA
MOTA	1173	OD1	ASE	A	147		18.382	59.680	21.886	1.00102.99	<b>AAAA</b>
MOTA	1174	OD2			. 147		18.186	60.159	24.024	1.00103.34	AAAA
MOTA	1175	С	ASE	À	147		21.670	58.812	22.854	1.00101.33	AAAA
MOTA	1176	0	ASE	A	147		21.691	58.807	24.084	1.00101.32	AAAA
MOTA	1177	N	PHE	A	148		22.038	57.765	22.117	1.00103.72	AAAA
MOTA	1178	CA	PHE	Α:	148		22.507	56.518	22.721	1.00106.02	AAAA
MOTA	1179	CB	PHE	; A	148		21.338	55.553	22.944	1.00106.28	AAAA
ATOM	1180	CG	PHE	. A	148		20.347	56.029	23.963	1.00106.66	AAAA
MOTA	1181	CDI	PHE	. A	148		19.025	56.266	23.606	1.00106.88	AAAA
ATOM	1182	CD3	PHE	Α :	148		20.738	56.261	25.278	1.00106.77	AAAA
ATOM	1183	CE1	L PHE	. A	148		18.102	56.728	24.543	1.00107.37	AAAA
ATOM	1184	CES	PHE	; <i>p</i>	148		19.826	56.723	26.225	1.00107.07	AAAA
ATOM	1185	CZ			148		18.505		25.856	1.00107.40	AAAA
ATOM	1186	С	PHE	. P	148		23.554		21.847	1.00107.55	AAAA
ATOM	1187	0			148		24.315		22.311	1.00108.01	AAAA
MOTA	1188	N			149		23.587			1.00109.52	AAAA
MOTA	1189	CA			149		24.534			1.00111.99	AAAA
MOTA	1190	CB			149		24.297		18.253	1.00112.31	AAAA
MOTA	1191	CG			149		25.246			1.00113.22	AAAA
ATOM	1192				149		24.528			1.00113.80	AAAA
ATOM	1193				149		26.510			1.00113.28	AAAA
ATOM	1194	С			149		25.992			1.00113.77	AAAA
ATOM	1195				149		26.865				AAAA
				,			_	_	-		

ATOM	1196	N	SER	А	150	26.249	56.881	20.874	1.00115.82	AAAA
ATOM	1197	CA	SER			27.606	57.173	21.341	1.00117.44	AAAA
ATOM	1198	CB	SER	A	150	27.717	58.643	21.769	1.00117.48	AAAA
ATOM	1199	OG	SER	Α	150	26.936	58.911	22.923	1.00117.36	AAAA
ATOM	1200	С	SER	Α	150	28.064	56.279	22.494	1.00118.68	AAAA
ATOM	1201	0	SER	A	150	29.267	56.101	22.705	1.00118.93	AAAA
ATOM	1202	N	ASN			27.108	55.726	23.239	1.00119.51	AAAA
ATOM	1203	CA	ASN			27.424	54.856	24.370	1.00120.07	AAAA
ATOM	1204	CB	ASN			26.310	54.934	25.426	1.00119.71	AAAA
ATOM	1205	CG	ASN			26.852	55.034	26.851	1.00119.86	AAAA AAAA
ATOM	1206		ASN			27.604	55.953	27.181 27.701	1.00119.67 1.00119.14	AAAA
ATOM	1207		ASN			26.462	54.092 53.414	23.890	1.00120.63	AAAA
ATOM	1208	C			151	27.593 27.905	52.518	24.677	1.00120.43	AAAA
ATOM	1209	O N			151 152	27.303	53.201	22.591	1.00121.39	AAAA
ATOM ATOM	1210 1211	CA			152	27.517	51.873	21.996	1.00122.20	AAAA
ATOM	1212	CB			152	26.910	51.851	20.588	1.00122.85	AAAA
ATOM	1213	CG			152	25.449	52.263	20.520	1.00123.66	AAAA
ATOM	1214	SD			152	24.650	51.695	19.002	1.00125.48	AAAA
ATOM	1215	CE			152	25.315	52.833	17.796	1.00124.10	AAAA
ATOM	1216	C			152	28.970	51.422	21.918	1.00122.20	AAAA
ATOM	1217	0			152	29.755	51.957	21.132	1.00122.44	AAAA
ATOM	1218	N	SER	Α	153	29.321	50.430	22.731	1.00122.03	AAAA
ATOM	1219	CA	SER	A	153	30.679	49.900	22.752	1.00121.82	AAAA
ATOM	1220	CB	SER	A	153	31.272	50.029	24.159	1.00121.49	AAAA
ATOM	1221	OG	SER	Α	153	32.641	49.667	24.172	1.00120.81	AAAA
ATOM	1222	С			153	30.677	48.435	22.315	1.00121.70	AAAA
ATOM	1223	0			153	30.925	47.533	23.118	1.00121.72	AAAA AAAA
ATOM	1224	N			154	30.393	48.208	21.035	1.00121.26 1.00120.36	AAAA
ATOM	1225	CA			154	30.347	46.861	20.475 19.392	1.00120.36	AAAA
ATOM	1226	CB			154	29.268 29.443	46.783 47.791	18.272	1.00120.21	AAAA
ATOM	1227	CG SD			. 154 . 154	28.087	47.742	17.096	1.00119.86	AAAA
ATOM ATOM	1228 1229	CE			154	26.802	48.534	18.057	1.00119.71	AAAA
ATOM	1230	C			154	31.687	46.405	19.896	1.00119.66	AAAA
ATOM	1231	Ö			154	32.643	47.176	19.817	1.00119.62	AAAA
ATOM	1232	N			155	31.736	45.140	19.493	1.00118.80	AAAA
ATOM	1233	CA			155	32.936	44.533	18.924	1.00117.98	AAAA
ATOM	1234	СВ			155	34.055	44.478	19.966	1.00118.41	AAAA
ATOM	1235	CG	ASP	Α	155	35.206	43.586	19.536	1.00118.92	AAAA
ATOM	1236	OD1	ASP	A	155	35.859	43.898	18.516	1.00118.88	AAAA
MOTA	1237	OD2	ASP	A	155	35.453	42.567	20.217	1.00119.12	AAAA
ATOM	1238	C			155	32.578	43.120	18.487	1.00117.10	AAAA
ATOM	1239	0			155	32.248	42.275	19.320	1.00117.10	AAAA
MOTA	1240	N			156	32.658	42.861	17.185		AAAA AAAA
ATOM	1241	CA			156	32.304	41.550	16.647	1.00114.62 1.00112.06	AAAA
ATOM	1242	CB			156	31.252	41.722 42.676	15.540 15.902	1.00112.00	AAAA
ATOM	1243	CG			156	30.138 30.406	44.020	16.154	1.00107.57	AAAA
ATOM	1244 1245				156 156	28.827	42.232	16.000	1.00108.22	AAAA
ATOM ATOM	1245				156	29.393	44.902	16.497	1.00105.86	AAAA
ATOM	1247				156	27.802	43.115	16.343	1.00107.30	AAAA
ATOM	1248	CZ			156	28.089	44.451	16.592	1.00106.11	AAAA
ATOM	1249	C			156	33.521	40.789	16.113	1.00114.57	AAAA
ATOM	1250	Ō			156	34.649	41.284	16.176	1.00114.53	AAAA
MOTA	1251	N	GLN	Į Į	157	33.286	39.584	15.598	1.00114.50	AAAA
ATOM	1252	CA	GL1	I F	157	34.360	38.752	15.054	1.00114.32	AAAA
ATOM	1253	CB	GLN	1 7	157	35.277	38.267	16.186	1.00114.06	AAAA
ATOM	1254	CG	GL1	i A	A 157	36.475		15.724	1.00113.55	AAAA
ATOM	1255	CD			A 157	37.373	37.031	16.872	0.01113.61	AAAA
ATOM	1256				A 157	36.940		17.793	0.01113.53	AAAA
MOTA	1257				A 157	38.631	37.453	16.824	0.01113.52	AAAA
MOTA	1258	С			A 157	33.802		14.290	1.00113.93	AAAA AAAA
ATOM	1259	0			A 157	32.633			1.00114.03	AAAA
MOTA	1260	N			A 158	34.645		13.464	1.00113.30 1.00112.12	AAAA
ATOM	1261	CA			A 158	34.246 34.146			1.00112.12	AAAA
ATOM	1262 1263	CB CG			A 158 A 158	34.146		10.322	0.01111.90	AAAA
ATOM ATOM	1263				A 158	32.722			0.01111.84	AAAA
ATOM	1265				A 158	34.601		9.341	0.01111.83	AAAA
ATOM	1266	C ND.			A 158	35.242		12.864	1.00111.02	AAAA
ATOM	1267	0			A 158	35.841				AAAA
ATOM	1268				A 159	35.422			1.00109.56	AAAA
ATOM	1269				A 159	36.333				AAAA
ATOM	1270				A 159	36.915			1.00108.10	AAAA

MOTA	1271	CG	HIS A	159	38.096	32.409	16.126	0.01108.11	AAAA
ATOM	1272		HIS A		39.381	32.717	16.422	0.01108.20	AAAA
ATOM	1273		HIS A		38.022	31.032	16.130	0.01108.20	AAAA
MOTA	1274	CE1	HIS A	159	39.210	30.530	16.417	0.01108.22	AAAA
ATOM	1275	NE2	HIS A	159	40.052	31.531	16.599	0.01108.21	AAAA
ATOM	1276	С	HIS A	159	35.565	31.775	14.333	1.00105.81	AAAA
ATOM	1277	Ó	HIS A		35.805	30.835	15.092	1.00105.09	
									AAAA
ATOM	1278	N	LEU A		34.619	31.730	13.398	1.00103.90	AAAA
ATOM	1279	CA	LEU A	160	33.808	30.542	13.144	1.00101.51	AAAA
ATOM	1280	CB	LEU A	160	32.361	30.764	13.596	1.00102.15	AAAA
ATOM	1281	CG	LEU A	160	31.508	29.524	13.895	0.01102.19	AAAA
ATOM	1282		LEU A						
					31.427	28.629	12.671	0.01102.31	AAAA
ATOM	1283		LEU A		32.114	28.767	15.066	0.01102.31	AAA <b>A</b>
ATOM	1284	С	LEU A	160	33.863	30.366	11.631	1.00 99.52	AAAA
ATOM	1285	0	LEU A	160	33.932	29.248	11.120	1.00100.23	AAAA
ATOM	1286	N	GLY A	161	33.831	31.496	10.929	1.00 96.78	AAAA
ATOM	1287	CA	GLY A						
					33.916	31.497	9.481	1.00 92.94	AAAA
MOTA	1288	С	GLY A		32.728	30.963	8.714	1.00 90.16	AAAA
ATOM	1289	0	GLY A	161	32.490	31.385	7.582	1.00 90.44	AAAA
ATOM	1290	N	SER A	162	31.984	30.036	9.311	1.00 86.80	AAAA
ATOM	1291	CA	SER A		30.825	29.456	8.641	1.00 82.48	AAAA
ATOM	1292	CB	SER A		30.267	28.270	9.436	1.00 83.67	AAAA
MOTA	1293	OG	SER A	162	29.471	28.714	10.521	1.00 85.29	AAAA
<b>ATOM</b>	1294	С	SER A	162	29.742	30.509	8.481	1.00 78.16	AAAA
ATOM	1295	0	SER A	162	28.551	30.215	8.602	1.00 78.94	AAAA
ATOM	1296	N	CYS A		30.164	31.742	8.221	1.00 72.13	
									AAAA
ATOM	1297	CA	CYS A		29.232	32.838	8.031	1.00 65.92	AAAA
MOTA	1298	С	CYS A	163	29.029	33.086	6.554	1.00 64.28	AAAA
ATOM	1299	0	CYS A	163	29.993	33.196	5.802	1.00 63.90	AAAA
ATOM	1300	CB	CYS A	1.63	29.759	34.120	8.662	1.00 62.73	AAAA
ATOM	1301	SG	CYS A						
					29.846	34.152	10.477	1.00 56.37	AAAA
MOTA	1302	N	GLN A		27.769	33.169	6.144	1.00 62.24	AAAA
ATOM	1303	CA	GLN A	164	27.437	33.436	4.757	1.00 60.30	AAAA
ATOM	1304	CB	GLN A	164	26.084	32.822	4.417	1.00 62.36	AAAA
MOTA	1305	CG	GLN A	164	25.917	31.363	4.822	1.00 66.38	AAAA
ATOM	1306	CD	GLN A						
					24.519	30.823	4.504	1.00 69.57	AAAA
ATOM	1307	OE1	GLN A		24.069	29.838	5.099	1.00 70.98	AAAA
MOTA	1308	NE2	GLN A	164	23.831	31.464	3.558	1.00 69.42	AAAA
ATOM	1309	С	GLN A	164	27.347	34.951	4.618	1.00 58.46	AAAA
ATOM	1310	0	GLN A		27.099	35.648	5.598	1.00 57.00	AAAA
ATOM	1311	N	LYS F						
					27.569	35.476	3.420	1.00 57.08	AAAA
MOTA	1312	CA	LYS A		27.445	36.917	3.245	1.00 56.35	AAAA
MOTA	1313	CB	LYS P	165	28.153	37.394	1.976	1.00 57.91	AAAA
ATOM	1314	CG	LYS A	165	29.656	37.546	2.115	1.00 61.88	AAAA
MOTA	1315	CD.	LYS 7	165	30.220	38:491	1.058	1.00 64.32	· AAAA
ATOM	1316	CE	LYS F		30.092	37.916	-0.339	1.00 66.55	AAAA
MOTA	1317	NZ	LYS F		30.888	36.664	-0.471	1.00 68.26	AAAA
ATOM	1318	С	LYS F	165	25.957	37.242	3.153	1.00 54.94	AAAA
ATOM	1319	0	LYS A	165	25.143	36.384	2.790	1.00 54.32	AAAA
ATOM	1320	N	CYS A	166	25.591	38.470	3.498	1.00 52.36	AAAA
ATOM	1321	CA	CYS F		24.195	38.849	3.432	1.00 50.42	AAAA
ATOM	1322	C	CYS F		23.712	38.645	1.994	1.00 50.04	AAAA
MOTA	1323	0	CYS F		24.504	38.727	1.054	1.00 48.76	AAAA
MOTA	1324	CB	CYS A	166	24.017	40.310	3.845	1.00 50.37	AAAA
ATOM	1325	SG	CYS A	166	24.182	40.677	5.630	1.00 52.73	AAAA
ATOM	1326	N	ASP A		22.420	38.366	1.830	1.00 48.48	AAAA
ATOM	1327	CA					0.509		
			ASP A		21.837	38.172		1.00 47.19	AAAA
ATOM	1328	CB	ASP A		20.336	37.926	0.643	1.00 47.24	AAAA
MOTA	1329	CG	ASP A	167	19.723	37.368	-0.624	1.00 48.93	AAAA
MOTA	1330	OD1	ASP A	167	19.654	38.112	-1.630	1.00 49.46	AAAA
ATOM	1331		ASP A		19.316	36.183	-0.616	1.00 46.29	AAAA
MOTA	1332	C	ASP A		22.112	39.433	-0.319	1.00 46.69	AAAA
ATOM	1333	0	ASP A		22.082	40.542	0.211	1.00 48.29	AAAA
MOTA	1334	N	PRO A	168	22.385	39.284	-1.629	1.00 46.34	AAAA
ATOM	1335	CD	PRO A	168	22.488	38.036	-2.406	1.00 46.35	AAAA
ATOM	1336	CA		168	22.669	40.447	-2.481	1.00 44.93	AAAA
ATOM	1337	CB		1 168					
					23.006	39.819	-3.834	1.00 45.07	AAAA
MOTA	1338	CG		168	23.456	38.428	-3.490	1.00 44.46	AAAA
MOTA	1339	С	PRO A	168	21.515	41.423	-2.596	1.00 45.29	AAAA
MOTA	1340	0	PRO A	168	21.701	42.549	-3.021	1.00 45.23	AAAA
MOTA	1341	N		A 169	20.321	40.986	-2.222	1.00 46.74	AAAA
ATOM	1342	CA		1 169	19.144	41.832	-2.315	1.00 50.75	AAAA
ATOM	1343	CB		169	17.900	40.970	-2.570	1.00 52.05	AAAA
MOTA	1344	OG	SER A	A 169	18.016	40.237	-3.787	1.00 51.10	AAAA
ATOM	1345	C	SER A	A 169	18.942	42.681	-1.069	1.00 53.98	AAAA
						_		_	

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ATOM	1346	0	SER	Δ	169	17.978	43.441	-0.964	1.00 55.46	AAAA
		N	CYS			19.856	42.559	-0.120	1.00 57.23	AAAA
ATOM	1347						43.322	1.113	1.00 60.49	AAAA
ATOM	1348	CA	CYS			19.757				AAAA
MOTA	1349	C	CYS	Α	170	20.267	44.762	0.910	1.00 63.76	
ATOM	1350	0	CYS	Α	170	20.953	45.048	-0.073	1.00 63.93	AAAA
ATOM	1351	СВ	CYS	Α	170	20.558	42.627	2.218	1.00 58.77	AAAA
						19.931	41.035	2.868	1.00 54.39	AAAA
MOTA	1352	SG	CYS						1.00 66.44	AAAA
ATOM	1353	N	PRO	Α	171	19.920	45.684	1.833		
ATOM	1354	CD	PRO	Α	171	18.807	45.497	2.779	1.00 67.90	AAAA
		CA	PRO			20.315	47.103	1.800	1.00 67.86	AAAA
ATOM	1355								1.00 67.76	AAAA
ATOM	1356	CB			171	19.275	47.780	2.700		
ATOM	1357	CG	PRO	Α	171	18.110	46.826	2.681	1.00 69.05	AAAA
ATOM	1358	С	PRO	Α	171	21.738	47.369	2.297	1.00 68.77	AAAA
					171	22.082	47.040	3.430	1.00 69.34	AAAA
MOTA	1359	0							1.00 69.66	AAAA
MOTA	1360	N	ASN	A	172	22.554	47.989	1.454		
MOTA	1361	CA	ASN	Α	172	23.935	48.288	1.811	1.00 69.99	AAAA
ATOM	1362	CB	ASN	Α	172	23.999	49.532	2.701	1.00 71.70	AAAA
						25.421	50.052	2.884	1.00 71.86	AAAA
MOTA	1363	ÇG			172				0.01 72.16	AAAA
ATOM	1364	OD1	ASN	А	172	25.651	51.021	3.607		
ATOM	1365	ND2	ASN	Α	172	26.378	49.408	2.225	0.01 72.15	AAAA
ATOM	1366	С	A SN	Δ	172	24.550	47.085	2.532	1.00 69.50	AAAA
					172	25.383	47.229	3.435	1.00 69.96	AAAA
MOTA	1367	0							1.00 67.54	AAAA
ATOM	1368	И	GLY	A	173	24.121	45.894	2.122		
MOTA	1369	CA	GLY	Α	173	24.633	44.672	2.708	1.00 64.33	AAAA
	1370	C			173	24.344	44.534	4.187	1.00 62.23	AAAA
ATOM								4.969	1.00 63.58	AAAA
MOTA	1371	0			173	25.254	44.243		_	
ATOM	1372	N	SER	A	174	23.086	44.734	4.574	1.00 57.73	AAAA
ATOM	1373	CA	SER	Α	174	22.698	44.626	5.973	1.00 53.75	AAAA
					174	22.084	45.935	6.468	1.00 53.52	AAAA
ATOM	1374	CB							1.00 53.71	AAAA
MOTA	1375	OG	SER	. A	174	23.075	46.915	6.699		
MOTA	1376	С	SER	A	174	21.705	43.508	6.193	1.00 51.76	AAAA
ATOM	1377	0	SER	Δ	174	20.701	43.416	5.505	1.00 51.21	AAAA
						21.980	42.659	7.170	1.00 51.84	AAAA
ATOM	1378	N			175				1.00 50.50	AAAA
MOTA	1379	CA	CYS	A	175	21.070	41.563	7.460		
ATOM	1380	С	CYS	A	175	21.302	40.994	8.849	1.00 48.47	AAAA
ATOM	1381	Ō			175	22.325	41.273	9.474	1.00 49.37	AAAA
							40.466	6.412	1.00 50.40	AAAA.
MOTA	1382	CB			175	21.232			1.00 47.29	AAAA
MOTA	1383	SG	CYS	A	175	22.777	39.510	6.500		
ATOM	1384	N	TRE	A	176	20.341	40.212	9.330	1.00 46.37	AAAA
ATOM	1385	CA			176	20.435	39.577	10.644	1.00 44.37	AAAA
						19.112	39.689	11.394	1.00 41.90	AAAA
ATOM	1386	CB			176				1.00 41.21	AAAA
MOTA	1387	CG	TRE	A	176	18.812	41.052	11.859		
ATOM	1388	CD2	TRE	·A	176	19.248	41.645	13.082	1.00 43.34	AAAA
ATOM	1389	CE2	ייי א	) A	176	18.750	42.963	13.106	1.00 41.70	AAAA
					176	20.016	41.188	14.166	1.00-43.05	AAAA -
ATOM	1390	CE3						11.209	1.00 40.48	AAAA
MOTA	1391	CDI			176	18.090	41.999			
MOTA	1392	NE1	. TRI	? A	176	18.046	43.152	11.949	1.00 41.05	AAAA
ATOM	1393	C7.2	TRE	Α <	176	18.992	43.833	14.167	1.00 42.83	AAAA
	1394				176	20 259	42.056	15,223	1.00 42.53	AAAA
ATOM							43.364	15.214	1.00 43.04	AAAA
ATOM	1395	CH2			176	19.747				AAAA
ATOM	1396	С	TRI	? 🏻	176	20.806	38.103	10.512		
MOTA	1397	0	TR	? <i>P</i>	176	21.029	37.420	11.504	1.00 44.30	AAAA
ATOM	1398				177	20.868	37.624	9.275	1.00 45.37	AAAA
							36.240	9.018	1.00 46.76	AAAA
MOTA	1399				177	21.210				AAAA
ATOM	1400	С			177	21.067	35.938	7.540	1.00 48.06	
ATOM	1401	0	GL	C F	177	20.696	36.819	6.760	1.00 49.44	AAAA
ATOM	1402	N	Δ1.7	ΔZ	178	21.361	34.702	7.148	1.00 47.29	AAAA
						21.249	34.301	5.751	1.00 46.38	AAAA
MOTA	1403				178				1.00 46.86	AAAA
ATOM	1404	CB	AL	A 7	178	21.667	32.851	5.601		
MOTA	1405	С	AL	4 7	178	19.809	34.480	5.278	1.00 46.62	AAAA
ATOM	1406				178	18.899	34.591	6.099	1.00 46.25	AAAA
							34.512	3.960		AAAA
MOTA	1407				179	19.607				AAAA
MOTA	1408	CA	GL.	Y A	179	18.270	34.660			
MOTA	1409	С	GL	Y 2	A 179	17.779	36.092	3.283		AAAA
ATOM	1410				A 179	18.185	36.976	4.039	1.00 45.95	AAAA
						16.904	36.322			AAAA
MOTA	1411				A 180					AAAA
MOTA	1412	CA			4 180	16.344	37.648			
ATOM	1413	CB	GL	U I	A 180	15.638	37.697	0.721	1.00 48.49	AAAA
ATOM	1414				A 180	16.614	37.588	-0.438	1.00 51.83	AAAA
						15.961	37.657			АДДА
ATOM	1415				A 180					AAAA
MOTA	1416				A 180	16.663	37.369			
ATOM	1417				A 180	14.763	37.997	-1.891		AAAA
	1418				A 180	15.367	37.965		1.00 51.01	AAAA
ATOM							39.122			AAAA
MOTA	1419				A 180	15.015			1 00 50 60	AAAA
MOTA	1420	) N	GL	U I	A 181	14.949	36.916	3.894	1.00 50.69	7777

ATOM	1421	CA	GLU A	181	14.020	37.039	5.000	1.00 51.35	ת ת ת ת
ATOM	1422	CB	GLU A						AAAA
ATOM					13.704	35.654	5.586	1.00 55.30	AAAA
	1423	CG	GLU A		13.165	34.601	4.615	1.00 62.52	AAAA
ATOM	1424	CD	GLU A		14.094	34.307	3.424	1.00 67.51	AAAA
ATOM	1425	OE1	GLU A	181	14.205	35.171	2.528	1.00 69.21	AAAA
ATOM	1426	OE2	GLU A	181	14.708	33.213	3.377	1.00 69.01	AAAA
ATOM	1427	С	GLU A		14.669	37.893	6.083		
ATOM	1428							1.00 49.66	AAAA
		0	GLU A		14.023	38.732	6.695	1.00 48.57	AAAA
MOTA	1429	N	ASN A		15.962	37.684	6.305	1.00 49.29	AAAA
ATOM	1430	CA	ASN A	182	16.671	38.406	7.353	1.00 48.94	AAAA
ATOM	1431	CB	ASN A	182	17.683	37.482	8.030	1.00 46.80	
ATOM	1432	CG	ASN A		17.024				AAAA
ATOM	1433		ASN A			36.287	8.686	1.00 46.43	AAAA
		ODI	ASN A	182	16.083	36.436	9.461	1.00 45.40	AAAA
ATOM	1434	ND2	ASN A	182	17.514	35.095	8.378	1.00 45.47	AAAA
ATOM	1435	С	ASN A	182	17.357	39.701	6.976	1.00 49.37	AAAA
ATOM	1436	0	ASN A		18.221	40.169	7.715	1.00 50.26	
ATOM	1437	N	CYS A		16.990	40.287			AAAA
ATOM	1438						5.841	1.00 49.36	AAAA
		CA	CYS A		17.608	41.551	5.453	1.00 48.77	AAAA
ATOM	1439	С	CYS A	183	17.121	42.623	6.437	1.00 47.97	AAAA
ATOM	1440	0	CYS A	183	16.020	42.528	6.975	1.00 45.20	AAAA
ATOM	1441	CB	CYS A		17.208	41.952	4.028	1.00 49.97	AAAA
ATOM	1442	SG	CYS A		17.909				
ATOM						41.034	2.609	1.00 51.03	AAAA
	1443	N	GLN A		17.940	43.637	6.677	1.00 47.98	AAAA
ATOM	1444	CA	GLN A		17.550	44.699	7.596	1.00 49.96	AAAA
ATOM	1445	CB	GLN A	184	18.784	45.470	8.099	1.00 46.32	AAAA
ATOM	1446	CG	GLN A	184	18.424	46.696	8.929	1.00 43.95	AAAA
ATOM	1447	CD	GLN A		19.615	47.327			
ATOM							9.641	1.00 44.04	AAAA
	1448		GLN A		20.742	47.311	9.137	1.00 40.59	AAAA
MOTA	1449	NE2	GLN A		19.359	47.914	10.811	1.00 40.47	AAAA
ATOM	1450	С	GLN A	184	16.550	45.680	6.969	1.00 51.88	AAAA
ATOM	1451	0	GLN A	184	16.774	46.217	5.882	1.00 52.14	AAAA
ATOM	1452	N	LYS A		15.439				
ATOM						45.900	7.663	1.00 53.30	AAAA
	1453	CA	LYS A		14.423	46.827	7.194	1.00 53.70	AAAA
ATOM	1454	CB	LYS A		13.039	46.399	7.683	1.00 51.76	AAAA
ATOM	1455	CG	LYS A	185	12.649	44.972	7.339	1.00 52.44	AAAA
ATOM	1456	CD	LYS A	185	11.220	44.681	7.802	1.00 52.65	
ATOM	1457	CE	LYS A		10.776	43.249			AAAA
ATOM	1458	NZ					7.505	1.00 52.35	AAAA
			LYS A		11.446	42.242	8.372	1.00 51.40	AAAA
ATOM	1459	С	LYS A		14.764	48.195	7.776	1.00 55.49	AAAA
ATOM	1460	0	LYS A	185	14.887	48.347	8.992	1.00 56.22	AAAA
ATOM	1461	N	LEU A	186	14.938	49.189	6.916	1.00 56.27	AAAA
ATOM	1462	CA	LEU A		15.242	50.521	7.402	1.00 57.96	
ATOM	1463	CB	LEU A		16.259				AAAA
ATOM	1464	CG				51.190	6.487	1.00 59.42	AAAA
			LEU A		17.571	50.391	6.473	1.00 61.16	AAAA
ATOM	1465		LEU A		18:679	5 <b>1</b> .190	5.794	1.00 61.15	AAAA
ATOM	1466	CD2	LEU A	186	17.973	50.058	7.903	1.00 60.70	AAAA
MOTA	1467	C	LEU A	186	13.962	51.331	7.491	1.00 58.85	AAAA
ATOM	1468	0	LEU A		13.117	51.266	6.598	1.00 59.85	
ATOM	1469	N	THR A						AAAA
					13.800	52.070		1.00 58.94	AAAA
ATOM	1470	CA	THR A		12.595	52.866	8.766	1.00 59.34	AAAA
ATOM	1471	CB	THR A		11.528	52.067	9.550	1.00 58.57	AAAA
MOTA	1472	OG1	THR A	187	12.079	51.620	10.797	1.00 56.88	AAAA
ATOM	1473	CG2	THR A	187	11.067	50.864	8.743	1.00 56.12	AAAA
ATOM	1474	С	THR A		12.805	54.218			
ATOM	1475	ŏ	THR A				9.452	1.00 60.71	AAAA
					11.841	54.881	9.817	1.00 60.89	AAAA
ATOM	1476	N	LYS A		14.055	54.634	9.629	1.00 62.77	AAAA
ATOM	1477	CA	LYS A		14.326	55.918	10.266	1.00 65.00	AAAA
ATOM	1478	CB	LYS A	188	14.610	55.742	11.759	1.00 64.92	AAAA
MOTA	1479	CG	LYS A	188	14.955	57.058	12.463	1.00 64.48	AAAA
ATOM	1480	CD	LYS A		15.032	56.919			
ATOM	1481	CE	LYS A				13.975	1.00 65.28	AAAA
					16.260	56.134	14.415	1.00 65.77	AAAA
ATOM	1482	NZ	LYS A		17.526	56.842	14.092	1.00 64.08	AAAA
ATOM	1483	С	LYS A	188	15.498	56.648	9.636	1.00 67.11	AAAA
ATOM	1484	0	LYS A	188	15.692	57.843	9.869	1.00 68.04	AAAA
ATOM	1485	N	ILE A		16.272	55.932	8.830	1.00 68.43	
ATOM	1486	CA	ILE A						AAAA
					17.447	56.511	8.192	1.00 69.36	AAAA
ATOM	1487	CB	ILE A		18.649	<b>55.5</b> 35	8.320	1.00 69.14	AAAA
ATOM	1488		ILE A		18.419	54.303	7.451	1.00 68.39	AAAA
ATOM	1489	CG1	ILE A	189	19.948	56.231	7.923	1.00 69.30	AAAA
ATOM	1490		ILE A		21.149	55.306	7.956		
ATOM	1491	C	ILE A					1.00 70.21	AAAA
					17.206	56.858	6.718	1.00 70.16	AAAA
ATOM	1492	0	ILE A		17.929	57.670	6.142	1.00 68.96	AAAA
ATOM	1493	N	ILE A	190	16.184	56.248	6.121	1.00 71.88	AAAA
MOTA	1494	CA	ILE A	190	15.853	56.483	4.716	1.00 74.74	AAAA
ATOM	1495	CB	ILE A		15.758	55.160	3.926	1.00 74.74	
					20.730	55.200	3.320	1.00 /4.19	AAAA

ATOM	1496	CG2	ILE A	190	17.074	54.413	3.993	1.00 74.42	AAAA
ATOM	1497	CG1	ILE A	190	14.615	54.309	4.484	1.00 74.26	AAAA
									AAAA
ATOM	1498		ILE A		14.326	53.057	3.687	1.00 74.87	
MOTA	1499	С	ILE A	190	14.512	57.196	4.554	1.00 76.92	AAAA
ATOM	1500	ο ΄	ILE A	190	13.878	57.107	3.501	1.00 77.60	AAAA
ATOM	1501	N	CYS A		14.078	57.897	5.592	1.00 79.38	AAAA
MOTA	1502	CA	CYS A	191	12.801	58.595	5.537	1.00 82.10	AAAA
ATOM	1503	С	CYS A	191	12.862	59.989	4.895	1.00 84.06	AAAA
ATOM	1504	0	CYS A	191	13.898	60.666	4.923	1.00 83.56	AAAA
									AAAA
ATOM	1505	CB	CYS A		12.204	58.695	6.948	1.00 82.02	
MOTA	1506	SG	CYS A	191	11.804	57.090	7.718	1.00 80.87	AAAA
ATOM	1507	N	ALA A	192	11.737	60.401	4.311	1.00 85.73	AAAA
ATOM	1508	CA	ALA A		11.633	61.706	3.670	1.00 87.60	AAAA
ATOM	1509	CB	ALA A	192	10.274	61.852	2.983	1.00 86.72	AAAA
ATOM	1510	С	ALA A	192	11.817	62.797	4.720	1.00 89.31	AAAA
ATOM	1511	0	ALA A	192	11.306	62.700	5.840	1.00 89.62	AAAA
			GLN A		12.553	63.835	4.346	1.00 91.29	AAAA
MOTA	1512	N							
ATOM	1513	CA	GLN A	193	12.842	64.953	5.236	1.00 92.94	AAAA
ATOM	1514	CB	GLN A	193	13.539	66.063	4.441	1.00 93.67	AAAA
ATOM	1515	CG	GLN A		14.759	65.571	3.665	1.00 94.57	AAAA
ATOM	1516	CD	GLN A		15.770	64.859	4.557	1.00 95.71	AAAA
ATOM	1517	OE1	GLN A	193	16.390	65.476	5.424	1.00 96.74	AAAA
ATOM	1518	NE2	GLN A	193	15.933	63.554	4.350	1.00 94.81	AAAA
		C	GLN A		11.609	65.507	5.954	1.00 93.26	AAAA
MOTA	1519								
ATOM	1520	0	GLN A	193	11.644	65.765	7.159	1.00 92.94	AAAA
ATOM	1521	N	GLN A	194	10.519	65.677	5.216	1.00 93.86	AAAA
ATOM	1522	CA	GLN A	194	9.291	66.212	5.790	1.00 94.06	AAAA
									AAAA
MOTA	1523	CB	GLN A		8.269	66.523	4.687	1.00 95.44	
ATOM	1524	CG	GLN A	194	8.846	67.076	3.387	1.00 97.99	AAAA
MOTA	1525	CD	GLN A	194	9.348	65.985	2.445	1.00 99.67	AAAA
	1526		GLN A		8.589	65.101	2.033	1.00 99.64	AAAA
ATOM									
MOTA	1527	NE2	GLN A	194	10.630	66.048	2.096	1.00100.14	AAAA
ATOM	1528	С	GLN A	194	8.649	65.248	6.783	1.00 93.10	AAAA
ATOM	1529	0	GLN A	194	7.459	65.363	7.068	1.00 93.80	AAAA
							7.321	1.00 92.12	AAAA
ATOM	1530	N	CYS A		9.415	64.302			
ATOM	1531	CA	CYS A	195	8.825	63.348	8.257	1.00 90.66	AAAA
MOTA	1532	С	CYS A	195	9.418	63.302	9.650	1.00 89.87	AAAA
ATOM	1533	ō	CYS A		10.615	63.517	9.846	1.00 89.54	AAAA
ATOM	1534	CB	CYS A		8.823	61.955	7.636	1.00 89.98	AAAA
MOTA	1535	SG	CYS A	195	7.809	61.955	6.128	1.00 87.72	AAAA
ATOM	1536	N	SER A	196	8.543	63.011	10.609	1.00 89.35	AAAA
					8.891	62.947	12.023	1.00 89.06	AAAA
ATOM	1537	CA	SER A						
MOTA	1538	CB	SER A	196	7.709	63.452	12.863	1.00 89.67	AAAA
ATOM	1539	OG	SER A	196	6.531	62.695	12.618	1.00 89.57	AAAA
ATOM	1540	٠	SER A	·196		61.562	12.515	··-100 <del></del> 88- <del>-</del> 36	- AAAA
									AAAA
MOTA	1541	0	SER A		10.437	61.364	12.956	1.00 88.30	
ATOM	1542	N	GLY A	197	8.384	60.607	12.444	1.00 87.34	AAAA
ATOM	1543	CA	GLY A	197	8.689	59.269	12.913	1.00 86.20	AAAA
ATOM	1544	C	GLY A		9.252	58.320	11.877	1.00 85.49	AAAA
		-							
ATOM	1545	0	GLY A		10.024	58.705	11.000	1.00 84.08	AAAA
ATOM	1546	N	ARG A	198	8.867	57.056	11.996	1.00 85.91	AAAA
ATOM	1547	CA	ARG A	198	9.329	56.037	11.073	1.00 86.14	AAAA
ATOM	1548	CB	ARG A		9.044	54.629	11.615	1.00 86.72	AAAA
						54.459		1.00 88.24	AAAA
ATOM	1549	CG	ARG A		9.138		13.138		
ATOM	1550	CD	ARG A	198	10.533	54.697	13.727	1.00 87.94	AAAA
ATOM	1551	NE	ARG A	198	11.553	53.810	13.179	1.00 88.14	AAAA
ATOM	1552	CZ	ARG A		12.744	53.608	13.735	1.00 88.34	AAAA
							14.865	1.00 88.13	AAAA
ATOM	1553		ARG A		13.066	54.222			
ATOM	1554	NH2	ARG A	198	13.626	52.813	13.147	1.00 88.54	AAAA
ATOM	1555	С	ARG A	198	8.567	56.237	9.774	1.00 85.37	AAAA
					7.661	57.067	9.695	1.00 85.03	AAAA
ATOM	1556	0	ARG A						
MOTA	1557	N	CYS A		8.928	55.461	8.764	1.00 84.93	AAAA
ATOM	1558	CA	CYS A	199	8.281	55.557	7.471	1.00 84.63	AAAA
ATOM	1559	С	CYS A		8.296	54.204	6.777	1.00 85.40	AAAA
					9.128			1.00 85.40	AAAA
ATOM	1560	0	CYS A			53.349	7.083		
ATOM	1561	CB	CYS A		9.012	56.578	6.611	1.00 83.02	AAAA
ATOM	1562	SG	CYS A	199	10.738	56.114	6.295	1.00 81.33	AAAA
	1563	N	ARG A		7.363	54.019	5.848	1.00 86.17	AAAA
ATOM									
MOTA	1564	CA	ARG A		7.251	52.785	5.083	1.00 86.89	AAAA
ATOM	1565	CB	ARG A	200	5.875	52.710	4.416	1.00 88.04	AAAA
ATOM	1566	CG	ARG A		4.721	52.531	5.390	1.00 90.47	AAAA
									AAAA
ATOM	1567	CD	ARG A		3.354	52.550	4.696	1.00 92.88	
MOTA	1568	NĒ	ARG A		3.339	51.753	3.471	1.00 95.81	AAAA
MOTA	1569	CZ	ARG A	200	3.566	52.250	2.257	1.00 97.36	AAAA
ATOM	1570		ARG A		3.818	53.544	2.113	1.00 98.09	AAAA
AT OF	A - 1 - 0	TIME	TING W		5.010	JJ. J44	وبدن	2.00 20.03	

ATOM	1571	NH2	ARG	Α	200	3.557	51.459	1.189	1 00	97.22	AAAA
ATOM	1572	С	ARG			8.351	52.749	4.024			
ATOM	1573									86.99	AAAA
		0	ARG			9.012	51.733	3.834	1.00	86.56	AAAA
ATOM	1574	N	GLY			8.534	53.875	3.344	1.00	87.59	AAAA
ATOM	1575	CA	GLY	Α	201	9.553	53.991	2.319	1.00	89.04	AAAA
ATOM	1576	С	GLY	Α	201	10.143	55.385	2.387		90.54	AAAA
ATOM	1577	0	GLY			10.097	56.017				
ATOM	1578							3.441		91.78	AAAA
		N	SER			10.698	55.878	1.283	1.00	91.26	AAAA
ATOM	1579	CA	SER	Α	202	11.271	57.222	1.280	1.00	91.46	AAAA
ATOM	1580	CB	SER	Α	202	12.621	57.236	0.561	1.00	91.76	AAAA
ATOM	1581	OG	SER	Α	202	13.203	58.528	0.622		90.90	AAAA
MOTA	1582	c	SER			10.313					
ATOM	1583						58.186	0.595		91.52	AAAA
		0	SER			10.626	59.358	0.391	1.00	90.79	AAAA
ATOM	1584	N	SER	A	203	9.139	57.672	0.245	1.00	92.09	AAAA
ATOM	1585	CA	SER	Α	203	8.111	58.466	-0.410	1.00	92.72	AAAA
ATOM	1586	CB	SER	Α	203	7.112	57.541	-1.106		92.32	AAAA
MOTA	1587	OG	SER			5.919	58.231	-1.433			
ATOM	1588	C								92.10	AAAA
			SER			7.382	59.353	0.597	1.00	93.08	AAAA
MOTA	1589	0	SER	A	203	6.991	58.895	1.671	1.00	93.46	AAAA
ATOM	1590	N	PRO	Α	204	7.197	60.641	0.263	1.00	93.09	AAAA
ATOM	1591	CD	PRO	А	204	7.750	61.347	-0.908		92.98	AAAA
ATOM	1592	CA	PRO			6.507	61.580	1.154			
ATOM										92.47	AAAA
	1593	CB	PRO			6.468	62.863	0.330		92.49	AAAA
MOTA	1594	CG	PRO	А	204	7.749	62.790	-0.444	1:00	92.54	AAAA
ATOM	1595	С	PRO	Α	204	5.113	61.098	1.558	1.00	91.59	AAAA
ATOM	1596	0	PRO	Α	204	4.544	61.575	2.539		91.49	AAAA
ATOM	1597	N	SER			4.570					
ATOM							60.153	0.799		90.63	AAAA
	1598	CA	SER			3.247	59.607	1.087	1.00	90.31	AAAA
MOTA	1599	CB	SER	Α	205	2.504	59.305	-0.215	1.00	90.24	AAAA
ATOM	1600	OG	SER	Α	205	2.408	60.458	-1.028	1.00	91.83	AAAA
MOTA	1601	С	SER			3.359	58.320	1.896		89.65	
ATOM	1602	ō	SER								AAAA
						2.350	57.699	2.236		89.68	AAAA
ATOM	1603	N	ASP			4.590	57.933	2.211	1.00	88.61	AAAA
MOTA	1604	CA	ASP	A	206	4.847	56.699	2.945	1.00	87.27	AAAA
ATOM	1605	CB	ASP	Α	206	5.917	55.892	2.199	1.00	87.91	AAAA
ATOM	1606	CG	ASP	Д	206	5.472	55.490	0.804		89.25	AAAA
ATOM	1607		ASP			4.949	56.360				
ATOM								0.074		89.73	AAAA
	1608		ASP			5.645	54.308	0.432	1.00	89.76	AAAA
ATOM	1609	С	ASP	A	206	5.259	56.863	4.408	1.00	85.32	AAAA
MOTA	1610	0	ASP	Α	206	5.761	55.921	5.013	1.00	85.03	AAAA
MOTA	1611	N	CYS	А	207	5.041	58.040	4.986		83.28	AAAA
MOTA	1612	CA	CYS			5.418	58.258	6.378			
ATOM										80.61	AAAA
	1613	С	CYS			4.397	57.817	7.406		77.76	AAAA
MOTA	1614	0	CYS			3.191	57.806	7.154	1.00	77.94	AAAA
ATOM	1615	CB	CYS	Α	207	5.797	59.715	6.600	100	81.69	AAAA
ATOM	1616	SG	CYS	Α	207	7.379	60.013	5.782		85.26	AAAA
ATOM	1617	N	CYS			4.905	57.452	8.577			
ATOM	1618	CA								73.98	AAAA
			CYS			4.076	56.965	9.664		70.13	AAAA
ATOM	1619	С	CYS			3.626	58.054	10.621	1.00	68.96	AAAA
MOTA	1620	0	CYS	A	208	4.289	59.082	10.772	1.00	67.69	AAAA
MOTA	1621	CB	CYS	Α	208	4.843	55.907	10.447		67.88	AAAA
MOTA	1622	SG	CYS			5.550	54.573	9.440		63.42	
ATOM	1623	И	HIS								AAAA
						2.494	57.812	11.273		67.78	AAAA
ATOM	1624	CA	HIS			1.963	58.759	12.235		68.16	AAAA
MOTA	1625	CB	HIS			0.621	58.273	12.766	1.00	69:93	AAAA
MOTA	1626	CG	HIS	Α	209	-0.036	59.244	13.688	1.00	72.49	AAAA
ATOM	1627	CD2	HIS	Α	209	0.031	60.594	13.751		73.30	AAAA
ATOM	1628		HIS			-0.863	58.850	14.718		73.57	AAAA
ATOM	1629										
			HIS			-1.273	59.917	15.379	1.00	74.42	AAAA
MOTA	1630		HIS			-0.745	60.988	14.813	1.00	74.80	AAAA
MOTA	1631	С	HIS	Α	209	2.977	58.871	13.373	1.00	67.91	AAAA
ATOM	1632	0	HIS	А	209	3.673	57.904	13.681		67.86	AAAA
ATOM	1633	N	ASN			3.057	60.042	14.000		67.56	AAAA
ATOM	1634	CA	ASN			4.033					
							60.269	15.065		66.77	AAAA
ATOM	1635	CB	ASN			3.866	61.674	15.659	1.00	68.84	AAAA
ATOM	1636	CG	ASN	A	210	2.619	61.801	16.519	1.00	71.33	AAAA
ATOM	1637	OD1	ASN	Α	210	2.601	62.542	17.505		71.67	AAAA
ATOM	1638		ASN			1.565	61.082	16.146		71.40	AAAA
ATOM	1639	C	ASN			4.015					
ATOM	1640						59.242	16.199		65.16	AAAA
		0	ASN			5.060	58.951	16.792		64.68	AAAA
ATOM	1641	N	GLN			2.837	58.698	16.500	1.00	62.20	AAAA
MOTA	1642	CA	GLN	Α	211	2.699	57.720	17.574		59.93	AAAA
ATOM	1643	CB	GLN			1.260	57.705	18.094		58.62	AAAA
ATOM	1644	CG	GLN			0.858					
ATOM							58.979	18.801		56.96	AAAA
AL OF	1645	CD	GLN	Н	<b>41</b> 1	1.778	59.324	19.946	1.00	56.29	AAAA

MOTA	1646	OE1	GLN	Α	211		1.788	58.651	20.972	1.00 56.69	
ATOM	1647	NE2	GLN	Α	211		2.564	60.378	19.776	1.00 56.65	
ATOM	1648	С	GLN	Α	211		3.104	56.307	17.172	1.00 59.67	AAAA
ATOM	1649	Ō	GLN				2.858	55.348	17.901	1.00 59.74	AAAA
ATOM	1650	N	CYS				3.721	56.174	16.008	1.00 59.14	AAAA
ATOM	1651	CA	CYS				4.148	54.869	15.549	1.00 57.65	AAAA
					212		5.583	54.613	15.939	1.00 57.76	
ATOM	1652	C						55.526	15.941	1.00 55.84	
ATOM	1653	0			212		6.418			1.00 57.76	
ATOM	1654	CB			212		4.035	54.764	14.040		
MOTA	1655	SG			212		2.361	54.571	13.375	1.00 56.57	
MOTA	1656	N			213		5.864	53.357	16.262	1.00 58.73	
MOTA	1657	CA	ALA	Α	213		7.206	52.948	16.643	1.00 59.33	
ATOM	1658	CB	ALA	Α	213		7.220	52.506	18.098	1.00 59.23	
ATOM	1659	С	ALA	Α	213		7.643	51.806	15.732	1.00 59.51	
MOTA	1660	0	ALA	Α	213		6.829	50.959	15.361	1.00 58.53	
ATOM	1661	N	ALA	Α	214		8.921	51.806	15.361	1.00 60.41	. AAAA
ATOM	1662	CA			214		9.493	50.773	14.499	1.00 62.54	AAAA
ATOM	1663	СВ			214		9.047	49.381	14.968	1.00 63.79	AAAA
ATOM	1664	C			214		9.133	50.958	13.030	1.00 63.20	) AAAA
	1665	0			214		10.010	51.141	12.177	1.00 63.43	
ATOM					215		7.842	50.890	12.733	1.00 62.95	
ATOM	1666	N					7.404	51.052	11.364	1.00 63.29	
ATOM	1667	CA			215		5.900		11.302	1.00 63.67	
ATOM	1668	С			215			51.084		1.00 63.66	
ATOM	1669	0			215		5.242	51.151	12.336		
MOTA	1670	И			216		5.351	51.020	10.095	1.00 65.17	
ATOM	1671	CA			216		3.906	51.056	9.937	1.00 66.54	
MOTA	1672	С			216		3.441	50.534	8.596	1.00 68.69	
MOTA	1673	0	CYS	Α	216		4.210	50.485	7.642	1.00 69.58	
ATOM	1674	CB	CYS	Α	216		3.414	52.485	10.089	1.00 65.18	
ATOM	1675	SG	CYS	Α	216		3.911	53.603	8.740	1.00 63.25	
ATOM	1676	N	THR	A	217		2.172	50.151	8.535	1.00 71.56	
ATOM	1677	CA	THR	A	217		1.567	49.659	7.306	1.00 75.38	aaaa
ATOM	1678	СВ			217		0.890	48.291	7.518	1.00 76.72	2 AAAA
ATOM	1679				217		-0.150	48.417	8.495	1.00 79.0	7 AAAA
ATOM	1680				217		1.901	47.263	7.996	1.00 78.1	5 AAAA
ATOM	1681	C			217		0.505	50.678	6.902	1.00 77.29	
		Ö			217		-0.687	50.368	6.856	1.00 78.0	
ATOM	1682						0.944	51.900	6.622	1.00 78.9	
ATOM	1683	N			218		0.014	52.948	6.247	1.00 80.9	
ATOM	1684	CA			218			54.291	6.808	1.00 82.3	
ATOM	1685	C			218		0.439		7.567	1.00 82.5	
ATOM	1686	0			218		1.401	54.364		1.00 83.5	-
ATOM	1687	N			219		-0.267	55.377	6.464		
MOTA	1688	CD			219		-1.333	55.448	5.447	1.00 83.7	
ATOM	1689	CA			219		0.068	56.719	6.948	1.00 84.1	
ATOM	1690	CB	PRC	A	219	•	-0.354	57.592	5:787	1.00 83.6	
MOTA	1691	CG	PRO	A	219		-1.665	56.938	5.417	1.00 83.8	
ATOM	1692	C	PRO	A	219		-0.662	57.116	8.226	1.00 84.4	
ATOM	1693	0	PRO	A	219		-0.393	58.174	8.794	1.00 83.4	
MOTA	1694	N	ARG	3 A	220		-1.583	56.274	8.677	1.00 85.0	
ATOM	1695	CA	ARG	3 P	220		-2.359	56.601	9.861	1.00 85.9	
ATOM	1696	CB	ARG	S A	220		-3.827	56.248	9.626	1.00 87.3	5 AAAA
ATOM	1697	CG			220		-4.558	57.247	8.749	1.00 90.7	9 AAAA
ATOM	1698	CD			220		-5.988	56.808	8.474	1.00 93.7	AAAA
ATOM	1699	NE			220		-6.802	57.910	7.967	1.00 96.2	AAAA 0
ATOM	1700	CZ			220		-8.047	57.781	7.515	1.00 97.1	
ATOM	1701				220		-8.634	56.590	7.498	1.00 97.8	AAAA 0
ATOM	1702				220		-8.709	58.849	7.086	1.00 97.0	
					220		-1.919	56.050	11.212	1.00 85.7	
ATOM	1703	С					-0.893	55.377	11.349	1.00 85.3	
ATOM	1704	0			220					1.00 84.5	
ATOM	1705	N			221		-2.742	56.370	12.204	1.00 83.3	
MOTA	1706	CA			221		-2.553	55.999	13.594		
MOTA	1707	CB			221		-3.519	56.823	14.438	1.00 84.9	
MOTA	1708	CG			221		-3.687	58.243	13.909	1.00 87.6	
ATOM	1709	CD	GL	U P	221		-4.892	58.967	14.484	1.00 88.9	
MOTA	1710	OE I	GL	U A	221		~5.159	60.110	14.043	1.00 89.1	
ATOM	1711	OE 2	GLI	U A	221	•	-5.570	58.400	15.370	1.00 89.4	
ATOM	1712	C			221		-2.795	54.513	13.822	1.00 81.6	
ATOM	1713	o			221		-1.974	53.822	14.423	1.00 82.6	
ATOM	1714	N			222		-3.932	54.025	13.348	1.00 79.1	1 AAAA
ATOM	1715	CA			222		-4.271	52.618	13.503	1.00 76.7	5 AAAA
ATOM	1716	CB			222		-5.742			1.00 77.3	
ATOM	1717	OG			A 222		-5.986			1.00 77.1	
	1718				A 222		-3.384			1.00 75.2	
ATOM					A 222		-3.598			1.00 75.5	
MOTA	1719						-2.379		11.997	1.00 72.3	
ATOM	1720	N	AS	r 1	A 223	•	-2.519	32.301	11.331		

MOTA	1721	ÇA	ASP A	223	-1.502	51.661	11.085	1.00 69.73	AAAA
ATOM	1722	CB	ASP A	223	-1.481	52.382	9.734	1.00 70.34	AAAA
ATOM	1723	CG	ASP A		-2.851	52.434	9.090	1.00 69.06	AAAA
ATOM	1724		ASP A		-3.400	51.359	8.776	1.00 69.66	AAAA
ATOM	1725		ASP A		-3.383	53.545	8.910	1.00 68.91	AAAA
ATOM	1726	C	ASP A		-0.083	51.439	11.584	1.00 67.62	AAAA
ATOM	1727	0	ASP A	223	0.825	51.162	10.795	1.00 66.02	AAAA
ATOM	1728	N	CYS A	224	0.104	51.544	12.896	1.00 65.07	AAAA
ATOM	1729	CA	CYS A	224	1.419	51.344	13.485	1.00 61.90	AAAA
MOTA	1730	С	CYS P	224	1.708	49.860	13.703	1.00 60.87	AAAA
ATOM	1731	0	CYS A		0.787	49.046	13.788	1.00 59.18	AAAA
ATOM	1732	CB	CYS P		1.510	52.036	14.839	1.00 60.46	AAAA
ATOM	1733	SG	CYS P		1.249	53.831	14.890	1.00 59.85	AAAA
ATOM	1734	N	LEU A		2.993	49.520	13.791	1.00 59.99	AAAA
MOTA	1735	CA	LEU A	225	3.405	48.146	14.056	1.00 60.05	AAAA
ATOM	1736	CB	LEU P	225	4.840	47.909	13.583	1.00 58.86	AAAA
ATOM	1737	CG	LEU A	225	5.031	47.825	12.068	1.00 58.09	AAAA
ATOM	1738	CD1	LEU A	225	6.499	47.544	11.749	1.00 54.61	AAAA
ATOM	1739		LEU F		4.112	46.733	11.503	1.00 55.73	AAAA
ATOM	1740	C	LEU F			47.981		1.00 60.79	
					3.316		15.569		AAAA
ATOM	1741	0	LEU P		2.700	47.037	16.075	1.00 60.05	AAAA
ATOM	1742	N	VAL A		3.945	48.917	16.279	1.00 61.36	AAAA
MOTA	1743	CA	VAL A		3.922	48.953	17.739	1.00 61.26	AAAA
MOTA	1744	CB	VAL A	226	5.242	48.446	18.371	1.00 60.46	AAAA
ATOM	1745	CG1	VAL A	226	5.468	47.004	17.989	1.00 62.20	AAAA
ATOM	1746	CG2	VAL A	226	6.410	49.306	17.931	1.00 60.22	AAAA
ATOM	1747	С	VAL A		3.710	50.411	18.126	1.00 60.76	AAAA
ATOM	1748	ō	VAL A		4.170	51.317	17.422	1.00 60.76	AAAA
ATOM	1749	N	CYS F				19.236	1.00 60.70	
					3.007	50.628			AAAA
ATOM	1750	CA	CYS A		2.714	51.973	19.717	1.00 59.58	AAAA
ATOM	1751	С	CYS A		3.871	52.638	20.434	1.00 61.42	AAAA
MOTA	1752	0	CYS A		4.622	51.997	21.167	1.00 62.53	AAAA
ATOM	1753	CB	CYS A	1 227	1.495	51.954	20.635	1.00 57.59	AAAA
ATOM	1754	SG	CYS A	227	-0.075	51.771	19.736	1.00 54.82	AAAA
ATOM	1755	N	ARG A	1 228	4.005	53.938	20.206	1.00 62.94	AAAA
ATOM	1756	CA	ARG A	228	5.055	54.738	20.815	1.00 64.04	AAAA
ATOM	1757	СВ	ARG A		5.085	56.119	20.160	1.00 67.31	AAAA
ATOM	1758	CG	ARG A		5.779	57.184	20.976	1.00 71.97	AAAA
ATOM	1759	CD	ARG A		7.275	57.071	20.893	1.00 73.93	AAAA
ATOM	1760	NE	ARG A		7.749	57.348	19.545	1.00 76.17	AAAA
ATOM	1761	CZ	ARG A		9.023	57.570	19.243	1.00 78.34	AAAA
MOTA	1762	NH1			9.946	57.548	20.199	1.00 78.75	AAAA
MOTA	1763	NH2	ARG A		9.374	57.812	17.987	1.00 79.53	AAAA
ATOM	1764	C	ARG A	A 228	4.769	54.865	22.302	1.00 62.78	AAAA
ATOM	1765	0	ARG A	A 228	5.592	54.509	23.133	1.00 62:43	AAAA
MOTA	1766	N	LYS A	A 229	3.591	55.375	22.631	1.00 62.10	AAAA
ATOM	1767	CA	LYS A		3.199	55.531	24.019	1.00 61.40	AAAA
ATOM	1768	CB	LYS A		2.840	56.987	24.317	1.00 61.42	AAAA
ATOM	1769	CG			4.037			1.00 61.77	AAAA
ATOM	1770	CD		A 229	3.611	59.300	24.881	1.00 64.42	AAAA
ATOM	1771	CE		A 229	4.819				AAAA
ATOM	1772	NZ		A 229	4.433				AAAA
ATOM	1773	С		A 229	2.017	54.634		1.00 61.45	AAAA
MOTA	1774	0	LYS A	A 229	2.168	53.425	24.515	1.00 62.61	AAAA
ATOM	1775	N	PHE 2	A 230	0.835	55.223	24.438	1.00 60.48	aaa <b>a</b>
ATOM	1776	CA	PHE 2	A 230	-0.350	54.456	24.770	1.00 60.22	AAAA
ATOM	1777	СВ	PHE	A 230	-1.414	55.364			AAAA
ATOM	1778	CG		A 230	-1.049	55.881	26.742	1.00 58.46	AAAA
ATOM	1779		PHE						AAAA
					-0.020	56.803			
ATOM	1780		PHE		-1.716	55.432	27.868	1.00 57.18	AAAA
MOTA	1781		PHE I		0.342	57.268			AAAA
ATOM	1782		PHE .		-1.363	55.890	29.124	1.00 58.53	AAAA
MOTA	1783	CZ	PHE	A 230	-0.329	56.812	29.263	1.00 58.08	AAAA
MOTA	1784	С		A 230	-0.943	53.720	23.589	1.00 60.46	AAAA
MOTA	1785	0		A 230	-0.646	54.014			AAAA
ATOM	1786	N		A 231	-1.787	52.750		1.00 62.80	AAAA
ATOM	1787	CA		A 231	-2.458	51.943		1.00 65.85	AAAA
	1788								
ATOM		CB		A 231	-1.908	50.518		1.00 69.01	AAAA
ATOM	1789	CG		A 231	-2.718	49.542		1.00 73.82	AAAA
MOTA	1790	CD		A 231	-2.222	48.116		1.00 78.04	AAAA
MOTA	1791	NE		A 231	-3.131	47.150			AAAA
ATOM	1792	CZ		A 231	-4.396	46.969		1.00 83.86	AAAA
MOTA	1793	NH1	ARG .	A 231	-4.915	47.689	23.012	1.00 83.60	AAAA
ATOM	1794		ARG		-5.145	46.063			AAAA
ATOM	1795	С		A 231	-3.926	51.933			AAAA
		-			520	-1.500			

ATOM	1796	0	ARG	Α	231	-4.298	51.566	24.401	1.00 66.52	AAAA
ATOM	1797	N	ASP			-4.755	52.351	22.336	1.00 68.45	AAAA
MOTA	1798	CA	ASP			-6.193	52.424	22.533	1.00 69.70	AAAA
ATOM	1799	CB	ASP			-6.647	53.880	22.356	1.00 70.04	AAAA
ATOM	1800	CG	ASP			-8.090	54.105	22.759	1.00 70.68	AAAA
ATOM	1801		ASP			-8.525	55.277	22.749	1.00 70.15	AAAA
ATOM	1802		ASP			-8.786	53.119	23.084	1.00 71.94 1.00 70.28	AAAA AAAA
ATOM ATOM	1803 1804	0	ASP ASP			-6.822 -6.750	51.520 51.812	21.479 20.285	1.00 70.25	AAAA
ATOM	1805	N			233	-7.422	50.421	21.923	1.00 70.37	AAAA
ATOM	1806	CA			233	-8.043	49.469	21.013	1.00 70.25	AAAA
ATOM	1807	СВ	GLU	Α	233	-9.355	50.030	20.470	1.00 70.92	AAAA
MOTA	1808	CG	GLU	Α	233	-10.405	50.286	21.537	1.00 72.92	AAAA
ATOM	1809	CD			233	-10.814	49.030	22.285	0.01 73.07	AAAA
MOTA	1810	OE1	GLU			-11.655	49.133	23.202	0.01 73.49	AAAA
ATOM	1811		GLU			-10.299	47.940	21.958	0.01 73.49 1.00 69.84	AAAA AAAA
ATOM ATOM	1812 1813	C 0			233 233	-7.090 -6.247	49.162 48.279	19.864 19.976	1.00 70.56	AAAA
ATOM	1814	N			234	-7.216	49.900	18.766	1.00 69.15	AAAA
ATOM	1815	CA			234	-6.356	49.693	17.605	1.00 67.73	AAAA
ATOM	1816	CB			234	-7.182	49.174	16.435	1.00 67.46	AAAA
ATOM	1817	С	ALA	A	234	-5.619	50.966	17.193	1.00 67.24	AAAA
ATOM	1818	0			234	-5.170	51.082	16.056	1.00 67.51	AAAA
ATOM	1819	N			235	-5.478	51.911	18.117	1.00 66.50	AAAA
ATOM	1820	CA			235	-4.803	53.169	17.816	1.00 65.61 1.00 66.47	AAAA AAAA
ATOM ATOM	1821	CB OG1			235 235	-5.808 -6.784	54.346 54.198	17.875 16.836	1.00 66.47	AAAA
ATOM	1822 1823	CG2			235	-5.096	55.674	17.692	1.00 67.67	AAAA
ATOM	1824	C			235	-3.646	53.462	18.773	1.00 64.34	AAAA
ATOM	1825	Ō			235	-3.594	52.916	19.875	1.00 65.64	AAAA
ATOM	1826	N	CYS	Α	236	-2.715	54.311	18.340	1.00 60.70	AAAA
ATOM	1827	CA			236	-1.583	54.703	19.176	1.00 58.30	AAAA
ATOM	1828	C			236	-1.749	56.170	19.531	1.00 57.11 1.00 56.82	AAAA AAAA
ATOM ATOM	1829 1830	O CB			236 236	-1.667 -0.242	57.036 54.532	18.661 18.448	1.00 58.81	AAAA
ATOM	1831	SG			236	0.272	52.830	18.043	1.00 56.82	AAAA
ATOM	1832	N	LYS	Α	237	-1.973	56.449	20.810	1.00 56.30	AAAA
ATOM	1833	CA			237	-2.160	57.819	21.267	1.00 54.56	AAAA
ATOM	1834	CB			237	-3.527	57.950 57.653	21.929 20.985	1.00 53.84	AAAA AAAA
ATOM ATOM	1835 1836	CG			237 237	-4.661 -5.984	57.688	21.699	1.00 54.20	AAAA
ATOM	1837	CE			237	-7.143	57.452	20.730	1.00 59.61	AAAA
ATOM	1838	NZ			237	-7.073	56.121	20.067	1.00 59.70	AAAA
ATOM	1839	С			237	-1.072	58.277	22.224	1.00 53.56	AAAA
MOTA	1840	0			237	~ -0.510	57.484	22.964	1.00 53.96	AAAA AAAA
MOTA MOTA	1841 1842	N CA			238 238	-0.771 0.243	59.566 60.120	22.198 23.077	1.00 53.34	AAAA
ATOM	1843	CB			238	0.608	61.532	22.647	1.00 53.71	AAAA
MOTA	1844	CG			238	1.700	62.117	23.499	1.00 57.42	AAAA
MOTA	1845	OD1	ASP	Α	238	2.846	61.620	23.417	1.00 58.51	AAAA
MOTA	1846				238	1.413	63.063	24.263	1.00 59.40	AAAA
ATOM	1847	C			238	-0.265 0. <b>51</b> 7	60.152 60.228	24.510 25.457	1.00 52.51	АААА АААА
ATOM ATOM	1848 1849	о И			238 239	-1.585	60.113	24.658	1.00 51.86	AAAA
ATOM	1850	CA			239	-2.233	60.119	25.967	1.00 53.06	AAAA
MOTA	1851	CB	THR	A	239	-2.328	61.545	26.580	1.00 54.14	AAAA
MOTA	1852				239	-1.018	62.110	26.710	1.00 55.47	AAAA
ATOM	1853				239	-2.967	61.487	27.963	1.00 55.03	AAAA
MOTA	1854 1855	С 0			239 239	-3.640 -4.205	59.607 59.824	25.739 24.673	1.00 52.95 1.00 53.57	дада дада
ATOM ATOM	1856	N			240	-4.208	58.921	26.724	1.00 53.56	AAAA
ATOM	1857	CA			240	-5.560	58.405	26.565	1.00 54.88	AAAA
ATOM	1858	С	CYS	A	240	-6.585	59.537	26.552	1.00 56.05	AAAA
ATOM	1859	0			240	-6.399	60.578	27.194	1.00 57.09	AAAA
ATOM	1860	CB			240	-5.912	57.434	27.695	1.00 54.61	АААА АААА
MOTA	1861 1862	SG N			240	-4.946 -7.681	55.895 59.353	27.726 25.805	1.00 54.55 1.00 54.66	AAAA AAAA
ATOM ATOM	1863	CD			241	-7.979	58.227	24.911	1.00 54.86	AAAA
ATOM	1864	CA			241	-8.730	60.371	25.731	1.00 54.01	AAAA
ATOM	1865	СВ			241	-9.735	59.760	24.753	1.00 53.92	AAAA
ATOM	1866	CG			241	-9.474	58.282	24.855	1.00 55.64	AAAA
MOTA	1867	C			241	-9.331	60.626	27.111	1.00 52.89	AAAA AAAA
ATOM	1868	O N			241	-9.867 -9.255	59.713 61.877	27.734 27.600	1.00 53.84 1.00 51.54	AAAA
ATOM ATOM	1869 1870	CD			242	-8.726	63.060	26.906	1.00 31.34	AAAA
MI OU		50		- 47		0.720	55.550			

ATOM	1871	CA	PRO	Α	242	-9.785	62.253	28.912	1.00 49.70	AAAA
ATOM	1872	CB	PRO	Α	242	-9.528	63.754	28.973	1.00 48.28	AAAA
ATOM	1873	CG	PRO	Α	242	-8.382	63.948	28.059	1.00 49.50	AAAA
ATOM	1874	C	PRO			-11.258	61.940	29.050	1.00 51.05	AAAA
ATOM	1875	ŏ	PRO			-11.978	61.849	28.059	1.00 50.69	AAAA
ATOM	1876	N	LEU			-11.701	61.782	30.292	1.00 52.78	AAAA
ATOM	1877	CA	LEU	Α	243	-13.101	61.502	30.579	1.00 53.84	AAAA
ATOM	1878	CB	LEU	Α	243	-13.241	60.867	31.963	1.00 55.15	AAAA
ATOM	1879	CG	LEU			-12.465	59.583	32.237	1.00 57.26	AAAA
ATOM	1880		LEU			-12.760	59.142	33.657	1.00 58.83	AAAA
ATOM	1881	CD2	LEU	A.	243	-12.863	58.497	31.245	1.00 57.07	AAAA
ATOM	1882	С	LEU	Α	243	-13.888	62.807	30.551	1.00 53.46	AAAA
ATOM	1883	0	LEU	Α	243	-15.116	62.806	30.497	1.00 54.25	AAAA
ATOM	1884	N	MET			-13.166	63.918	30.609	1.00 52.58	AAAA
ATOM	1885	CA	MET			-13.776	65.236	30.590	1.00 53.34	AAAA
MOTA	1886	CB	MET	Α	244	-13.895	65.795	32.018	1.00 54.69	AAAA
ATOM	1887	CG	MET	Α	244	-15.022	65.185	32.849	1.00 57.09	AAAA
ATOM	1888	SD	MET	Α	244	-15.267	65.986	34.452	1.00 61.40	AAAA
ATOM	1889	CE	MET			-16.008	64.612	35.415	1.00 56.61	AAAA
ATOM	1890	С	MET			-12.958	66.195	29.728	1.00 53.36	AAAA
ATOM	1891	0	MET	Α	244	-11.730	66.098	29.657	1.00 54.33	AAAA
ATOM	1892	N	LEU	Α	245	-13.646	67.110	29.056	1.00 52.53	AAAA
ATOM	1893	CA	LEU	Α	245	-12.981	68.100	28.226	1.00 51.49	AAAA
ATOM	1894	CB	LEU		-	-13.320	67.893	26.754	1.00 51.39	AAAA
ATOM	1895	CG	LEU			-12.686	66.667	26.094	1.00 53.64	AAAA
MOTA	1896	CD1	LEU	A	245	-13.435	66.349	24.814	1.00 53.73	AAAA
ATOM	1897	CD2	LEU	Α	245	-11.197	66.912	25.830	1.00 50.89	AAAA
ATOM	1898	С	LEU	Α	245	-13.436	69.478	28.662	1.00 51.38	AAAA
ATOM	1899	Ō	LEU			-14.595	69.679	29.021	1.00 51.07	AAAA
										AAAA
MOTA	1900	N	TYR			-12.507	70.420	28.651	1.00 50.18	
ATOM	1901	CA	TYR	A	246	-12.810	71.788	29.020	1.00 50.73	AAAA
ATOM	1902	CB	TYR	Α	246	-11.519	72.529	29.346	1.00 47.94	AAAA
MOTA	1903	CG	TYR	Α	246	-11.699	73.955	29.790	1.00 45.73	AAAA
MOTA	1904		TYR			-12.265	74.251	31.032	1.00 44.42	AAAA
ATOM	1905	CE1				-12.325	75.562	31.498	1.00 43.30	AAAA
MOTA	1906		TYR			-11.212	75.009	29.013	1.00 45.57	AAAA
ATOM	1907	CE2	TYR	Α	246	-11.266	76.326	29.466	1.00 42.93	AAAA
ATOM	1908	CZ	TYR	Α	246	-11.816	76.592	30.711	1.00 43.68	AAAA
ATOM	1909	ОН			246	-11.804	77.877	31.193	1.00 44.04	AAAA
ATOM	1910	C.			246	-13.481	72.443	27.816	1.00 52.10	AAAA
ATOM	1911	0			246	-13.133	72.147	26.666	1.00 53.56	AAAA
MOTA	1912	N	ASN	Α	247	-14.442	73.325	28.080	1.00 52.10	AAAA
ATOM	1913	CA	ASN	Α	247	-15.151	74.033	27.022	1.00 50.83	AAAA
ATOM	1914	CB	ASN	Α	247	-16.650	73.943	27.262	1.00 50.18	AAAA
ATOM	1915	CG			247	-17.450	74.353	26.056	1.00 49.02	AAAA
ATOM	1916		ASN			-17.138	75.347	25.408	1.00 47.60	AAAA
MOTA	1917	ND2	ASN	A	247	-18.496	73.591	25.748	1.00 47.20	AAAA
MOTA	1918	C	ASN	Α	247	-14.714	75.499	27.038	1.00 50.54	AAAA
MOTA	1919	0	ASN	Α	247	-15.081	76.255	27.926	1.00 51.49	AAAA
ATOM	1920	N			248	-13.925	75.920	26.050	1.00 50.16	AAAA
ATOM	1921	CD			248	-13.412	75.126	24.924	1.00 50.04	AAAA
ATOM	1922	CA			248	-13.444	77.303	25.974	1.00 50.89	AAAA
MOTA	1923	CB	PRO	Α	248	-12.619	77.310	24.691	1.00 50.70	AAAA
ATOM	1924	CG	PRO	Ά	248	-12.162	75.884	24.565	1.00 51.21	AAAA
ATOM	1925	С	PRO	Α	248	-14.523	78.394	25.956	1.00 52.50	AAAA
ATOM	1926	Ó			248	-14.224	79.566	26.210	1.00 52.35	AAAA
ATOM	1927	N			249	-15.765	78.028	25.646	1.00 52.66	AAAA
MOTA	1928	CA			249	-16.838	79.017	25.595	1.00 54.32	AAAA
ATOM	1929	CB	THR	Α	249	-17.575	79.028	24.214	1.00 54.98	AAAA
MOTA	1930	OG1	THR	Α	249	-18.420	77.871	24.096	1.00 54.34	AAAA
ATOM	1931	CG2	THR	Ά	249	-16.570	79.058	23.064	1.00 54.03	AAAA
ATOM	1932	С			249	-17.869	78.746	26.668	1.00 54.95	AAAA
ATOM	1933	0			249	-19.025	79.129	26.544	1.00 57.09	AAAA
ATOM	1934	И			250	-17.450	78.091	27.734	1.00 55.43	AAAA
ATOM	1935	CA	THR	Α	250	-18.375	77.769	28.806	1.00 55.67	AAAA
ATOM	1936	CB	THR	А	250	-18.921	76.340	28.643	1.00 56.52	AAAA
ATOM	1937		THR			-19.473	76.190	27.334	1.00 59.78	AAAA
		CG2								
ATOM	1938				250	-19.992	76.054	29.669	1.00 56.31	AAAA
ATOM	1939	С			250	-17.659	77.837	30.133	1.00 55.14	AAAA
ATOM	1940	0	THR	Α	250	-18.299	77.905	31.183	1.00 55.72	AAAA
ATOM	1941	N	TYR	A	251	-16.327	77.825	30.069	1.00 53.45	AAAA
ATOM	1942	CA			251	-15.495	77.827	31.260	1.00 50.54	AAAA
		CB			251	-15.534			1.00 48.07	AAAA
ATOM	1943						79.181	31.947		
ATOM	1944	CG			251	-15.030	80.275	31.060	1.00 46.80	AAAA
MOTA	1945	CD1	TYR	A	251	-15.801	80.735	29.986	1.00 47.87	AAAA

ATOM	1946	CE1	TYR	A	251	-15.316	81.735	29.125	1.00 46.95	AAAA
MOTA	1947	CD2				-13.764	80.833	31.262	1.00 45.01	AAAA
ATOM	1948		TYR			-13.271	81.826	30.418	1.00 46.07 1.00 47.04	AAAA AAAA
ATOM ATOM	1949 1950	CZ OH	TYR TYR			-14.051 -13.570	82.274 83.259	29.349 28.513	1.00 47.04	AAAA
ATOM	1951	C	TYR			-16.102	76.757	32.137	1.00 50.21	AAAA
ATOM	1952	ō	TYR			-16.393	76.977	33.316	1.00 48.01	AAAA
ATOM	1953	N	GLN			-16.314	75.601	31.516	1.00 50.16	AAAA
MOTA	1954	CA			252	-16.899	74.457	32.186	1.00 52.20	AAAA
ATOM	1955	CB			252	-18.413	74.485	32.018	1.00 53.68 1.00 57.93	дааа дааа
ATOM ATOM	1956 1957	CD			252 252	-19.134 -18.798	73.546 73.835	32.953 34.398	1.00 60.07	AAAA
ATOM	1958		GLN			-19.125	74.906	34.922	1.00 59.29	AAAA
ATOM	1959		GLN			-18.123	72.885	35.050	1.00 62.01	AAAA
ATOM	1960	C	GLN	Α	252	-16.342	73.155	31.622	1.00 52.36	AAAA
ATOM	1961	0			252	-15.834	73.120	30.506	1.00 54.07	AAAA
ATOM	1962	N			253	-16.426	72.085	32.402 31.948	1.00 52.31 1.00 51.56	AAAA AAAA
ATOM ATOM	1963 1964	CA CB			253 253	-15.930 -15.300	70.798 70.000	33.100	1.00 31.30	AAAA
ATOM	1965	CG			253	-14.058	70.603	33.739	1.00 42.98	AAAA
ATOM	1966	SD			253	-12.751	70.938	32.564	1.00 41.36	AAAA
ATOM	1967	CE	MET	Α	253	-12.346	69.315	32.007	1.00 38.38	AAAA
ATOM	1968	С			253	-17.089	70.002	31.385	1.00 53.96	AAAA AAAA
ATOM	1969	0			253	-18.081 -16.963	69.772 69.593	32.078 30.125	1.00 54.78 1.00 56.61	AAAA
ATOM ATOM	1970 1971	N CA			254 254	-17.981	68.787	29.459	1.00 58.55	AAAA
ATOM	1972	CB			254	-18.135	69.205	27.993	1.00 58.42	AAAA
ATOM	1973	CG			254	-18.710	70.597	27.841	1.00 59.84	AAAA
ATOM	1974		ASP			-18.569	71.176	26.747	1.00 59.99	AAAA
ATOM	1975		ASP			-19.310	71.112	28.808	1.00 61.08	AAAA AAAA
ATOM	1976	C			254 254	-17.514 -16.316	67.339 67.066	29.526 29.644	1.00 60.18 1.00 59.54	AAAA
ATOM ATOM	1977 1978	O N			255	-18.461	66.414	29.451	1.00 61.88	AAAA
ATOM	1979	CA			255	-18.142	64.997	29.506	1.00 63.18	AAAA
ATOM	1980	CB			255	-19.310	64.195	30.088	1.00 62.28	AAAA
MOTA	1981				255	-19.010	62.710	30.002	1.00 62.53	AAAA
ATOM	1982				255	-19.552	64.608	31.522	1.00 61.52 1.00 64.24	AAAA AAAA
ATOM	1983 1984	С 0			255 255	-17.830 -18.686	64.442 64.452	28.127 27.252	1.00 65.57	AAAA
ATOM ATOM	1985	N			256	-16.607	63.960	27.931	1.00 64.99	AAAA
ATOM	1986	CA			256	-16.234	63.385	26.649	1.00 65.59	AAAA
MOTA	1987	CB			256	-14.720	63.292	26.505	1.00 64.80	AAAA
ATOM	1988	CG			256	-14.308	62.740	25.154	1.00 65.41 1.00 66.45	AAAA AAAA
MOTA	1989 1990				256 256	-15.119 -13.046	62.135 62.933	24.450 24.787	1.00 64.10	AAAA
ATOM ATOM	1991	C			256	-16.821	61.984	26.571	1.00 66.88	AAAA
ATOM	1992	ō			256	-16.453	61.108	27.351	1.00 67.44	AAAA
MOTA	1993	N	PRO	A	257	-17.738	61.747	25.622	1.00 68.28	AAAA
MOTA	1994	CD			257	-18.205	62.633	24.539	1.00 67.80	AAAA AAAA
ATOM	1995	CA	PRO	) A	257 257	-18.337 -19.445	60.414 60.632	25.504 24.480	1.00 68.62 1.00 68.57	AAAA
ATOM ATOM	1996 1997	CB CG	PRO	A	257	-18.836	61.656	23.568	1.00 68.81	AAAA
ATOM	1998	C			257	-17.317	59.359	25.063	1.00 68.79	AAAA
ATOM	1999	0	PRC	A	257	-17.508	58.164	25.299	1.00 68.77	AAAA
MOTA	2000	N			258	-16.233	59.813	24.435	1.00 68.17	AAAA
ATOM	2001	CA			258	-15.181 -14.702	58.918 59.352	23.959 22.573	1.00 68.45 1.00 70.09	AAAA AAAA
ATOM ATOM	2002 2003	CB CG			258	-15.646	58.958	21.458	1.00 73.60	AAAA
ATOM	2003	CD			258	-15.040	59.164	20.092	1.00 75.72	AAAA
ATOM	2005				258	-14.860	60.333	19.694	1.00 76.89	AAAA
ATOM	2006	OE 2			258	-14.739	58.154	19.419	1.00 77.34	AAAA
MOTA	2007	C			258	-13.982	58.830	24.894 24.461	1.00 67.48 1.00 66.70	AAAA AAAA
ATOM	2008 2009	O N			258	-12.866 -14.215	58.531 59.085	26.176	1.00 66.17	AAAA
ATOM ATOM	2010	CA			259	-13.131	59.031	27.137	1.00 63.66	AAAA
ATOM	2011	c.			259	-12.830	57.628	27.616	1.00 62.15	AAAA
MOTA	2012	0	GLY	Z P	259	-13.679	56.733	27.545	1.00 60.63	AAAA
MOTA	2013	N			260	-11.607	57.442	28.101	1.00 61.06	AAAA
MOTA	2014	CA			260	-11.161	56.155	28.619	1.00 60.17 1.00 60.58	AAAA AAAA
MOTA	2015 2016	CB CG			1 260 1 260	-10.509 -11.434	55.336 55.038	27.503 26.339	1.00 60.58	AAAA
MOTA MOTA	2016	CD			260	-10.804	54.049	25.375	1.00 63.16	AAAA
ATOM	2018	CE			260	-11.570	53.993	24.064	1.00 65.08	AAAA
ATOM .		NZ			260	-13.018	53.689			AAAA
ATOM	2020	С	LYS	3 F	260	-10.173	56.349	29.776	1.00 58.44	AAAA

MOTA	2021	0	LYS F	260	-9.785	57.479	30.088	1.00 57.91	AAAA
ATOM	2022	N	TYR A	261	-9.772	55.248	30.409	1.00 55.67	AAAA
MOTA	2023	CA	TYR A	261	-8.831	55.309	31.522	1.00 52.07	AAAA
ATOM	2024	СВ	TYR A		-9.318	54.464	32.690	1.00 49.48	AAAA
ATOM	2025	CG	TYR A		-10.607	54.936	33.297	1.00 47.00	AAAA
ATOM	2026	CD1	TYR A	4 261	-11.832	54.632	32.715	1.00 44.34	AAAA
ATOM	2027	CE1	TYR A	4 261	-13.019	55.084	33.273	1.00 43.38	AAAA
ATOM	2028	CD2	TYR A	261	-10.600	55.705	34.453	1.00 47.13	AAAA
ATOM	2029		TYR A		-11.785	56.166	35.017	1.00 46.03	AAAA
ATOM	2030	CZ	TYR A		-12.986	55.852	34.422	1.00 44.23	AAAA
ATOM	2031	OH	TYR A	A 261	-14.142	56.325	34.991	1.00 45.72	AAAA
ATOM	2032	С	TYR A	A 261	-7.447	54.828	31.148	1.00 51.74	AAAA
ATOM	2033	0	TYR A		-7.286	53.985	30.267	1.00 52.11	AAAA
					-6.448			1.00 50.75	AAAA
ATOM	2034	N	SER A			55.373	31.830		
ATOM	2035	CA	SER A	A 262	-5.067	54.980	31.602	1.00 50.14	AAAA
MOTA	2036	CB	SER A	A 262	-4.106	56.119	31.965	1.00 49.74	AAAA
ATOM	2037	OG	SER Z	A 262	-4.173	57.192	31.046	1.00 48.23	AAAA
ATOM	2038	С		A 262	-4.754	53.770	32.477	1.00 49.93	AAAA
					-4.935	53.802	33.691	1.00 49.99	AAAA
MOTA	2039	0		A 262					
ATOM	2040	N	PHE A	A 263	-4.293	52.700	31.849	1.00 50.71	AAAA
ATOM	2041	CA	PHE I	A 263	-3.927	51.481	32.559	1.00 51.05	AAAA
MOTA	2042	CB	PHE 2	A 263	-5.008	50.419	32.387	1.00 54.72	AAAA
ATOM	2043	CG		A 263	-4.768	49.167	33.187	1.00 59.61	AAAA
	-								
MOTA	2044		PHE 2		-4.431	47.970	32.549	1.00 60.53	AAAA
ATOM	2045	CD2	PHE :	A 263	-4.906	49.173	34.578	1.00 60.22	AAAA
ATOM	2046	CE1	PHE :	A 263	-4.239	46.802	33.285	1.00 60.70	AAAA
ATOM	2047			A 263	-4.715	48.006	35.325	1.00 60.28	AAAA
	2048	CZ		A 263	-4.384	46.822	34.679	1.00 60.95	AAAA
ATOM									
MOTA	2049	С		A 263	-2.638	51.028	31.904	1.00 50.56	AAAA
ATOM	2050	0	PHE .	A 263	-2.646	50.424	30.827	1.00 49.12	AAAA
MOTA	2051	N	GLY .	A 264	-1.523	51.341	32.547	1.00 50.31	AAAA
ATOM	2052	CA		A 264	-0.251	50.973	31.971	1.00 49.70	AAAA
								1.00 49.89	AAAA
MOTA	2053	C		A 264	-0.161	51.724	30.665		
ATOM	2054	0	GLY .	A 264	-0.469	52.910	30.618	1.00 52.14	AAAA
ATOM	2055	N	ALA .	A 265	0.233	51.038	29.600	1.00 49.30	AAAA
ATOM	2056	CA	ALA	A 265	0.372	51.670	28.297	1.00 47.40	AAAA
ATOM	2057	CB		A 265	1.608	51.139	27.602	1.00 46.31	AAAA
								1.00 47.46	AAAA
ATOM	2058	C		A 265	-0.851	51.438	27.427		
MOTA	2059	0		A 265	-0.746	51.420	26.203	1.00 46.68	AAAA
ATOM	2060	N	THR	A 266	-2.011	51.274	28.055	1.00 48.17	AAAA
ATOM	2061	CA	THR	A 266	-3.241	51.022	27.311	1.00 49.65	AAAA
ATOM	2062	СВ		A 266	-3.622	49.508	27.353	1.00 48.58	AAAA
	2063	OG1		A 266	-4.029	49.154	28.676	1.00 48.91	AAAA
ATOM									
ATOM	2064	CG2		A 266	-2.437	48.631	26.961	1.00 46.18	AAAA
ATOM	2065	С	THR	A 266	-4.422	51.821	27.860	-100- 50.98	AAAA
MOTA	2066	0	THR	A 266	-4.452	52.157	29.042	1.00 51.40	AAAA
ATOM	2067	N		A 267	-5.391	52.123	26.996	1.00 52.99	AAAA
	2068	CA		A 267	-6.590	52.860	27.406	1.00 55.11	AAAA
MOTA									
MOTA	2069	C		A 267	-7.748	51.875	27.434	1.00 56.75	AAAA
MOTA	2070	0	CYS	A 267	-7.919	51.090	26.500	1.00 57.16	AAAA
ATOM	2071	CB	CYS	A 267	-6.899	53.982	26.424	1.00 54.20	AAAA
ATOM	2072	SG		A 267	-5.445	54.981	25.989	1.00 57.74	AAAA
	2073	N		A 268	-8.551	51.926	28.493	1.00 58.27	AAAA
ATOM						50.994		1.00 59.25	AAAA
ATOM	2074	CA		A 268	-9.665		28.639		
ATOM	2075	CB		A 268	-9.274	49.880	29.630	1.00 58.62	AAAA
ATOM	2076	CG1	VAL	A 268	-8.097	49.103	29.086	1.00 56.64	AAAA
ATOM	2077	CG2	VAL	A 268	-8.897	50.491	30.975	1.00 57.47	AAAA
ATOM	2078	С		A 268	-10.958	51.652	29.114	1.00 60.54	AAAA
	2079						29.629	1.00 61.52	AAAA
ATOM		0		A 268	-10.937	52.767			
ATOM	2080	И		A 269	-12.078	50.954	28.951	1.00 62.34	AAAA
ATOM	2081	CA	LYS	A 269	-13.380	51.481	29.371	1.00 64.85	AAAA
ATOM	2082	CB		A 269	-14.519	50.526	28.980	1.00 65.55	AAAA
ATOM	2083	CG		A 269	-14.599		27.497	1.00 65.87	AAAA
									AAAA
ATOM	2084	CD		A 269	-13.430		27.080	1.00 67.45	
ATOM	2085	CE		A 269	-13.376		27.921	1.00 67.70	AAAA
ATOM	2086	NZ	LYS	A 269	-12.118	47.260	27.712	1.00 68.36	AAAA
ATOM	2087	C		A 269	-13.435		30.876	1.00 65.72	AAAA
	2088				-13.788		31.314	1.00 66.07	AAAA
ATOM		0		A 269					
ATOM	2089	N		A 270	-13.102		31.669	1.00 67.79	AAAA
ATOM	2090	CA	LYS	A 270	-13.110	50.879	33.122	1.00 71.12	AAAA
MOTA	2091	CB	LYS	A 270	-14.368	50.248	33.736	1.00 72.73	AAAA
ATOM	2092	CG		A 270	-15.687			1.00 76.20	AAAA
	2093	CD		A 270	-15.802			1.00 76.38	AAAA
ATOM									
ATOM	2094	CE		A 270	-16.264		34.767	1.00 78.14	AAAA
ATOM	2095	NZ	LYS	A 270	-17.710	52.436	34.986	1.00 78.22	AAAA

ATOM	2096	С	LYS	A	270	-11.863	50.257	33.745	1.00 71.54	AAAA
ATOM	2097	ō	LYS			-11.283	49.312	33.197	1.00 71.77	AAAA
ATOM	2098	N	CYS			-11.436	50.796	34.883	1.00 70.78	AAAA
ATOM	2099	CA	CYS			-10.257	50.255	35.536	1.00 70.35	AAAA
ATOM	2100	C C	CYS			-10.536	48.825	35.943	1.00 71.95	AAAA
ATOM	2101	Ö	CYS			-11.689	48.456	36.176	1.00 72.17	AAAA
	2102	СВ	CYS			-9.887	51.075	36.767	1.00 67.01	AAAA
ATOM		SG	CYS			-9.176	52.695	36.367	1.00 62.70	AAAA
ATOM	2103				272	-9.485	47.993	36.015	1.00 73.29	AAAA
ATOM	2104	N						35.461	1.00 73.25	AAAA
ATOM	2105	CD			272	-8.143	48.228			AAAA
ATOM	2106	CA			272	-9.641	46.589	36.401	1.00 74.19	
MOTA	2107	CB			272	-8.301	45.965	36.008	1.00 74:11	AAAA
MOTA	2108	CG			272	-7.800	46.865	34.918	1.00 75.07	AAAA
ATOM	2109	С			272	-9.914	46.456	37.893	1.00 75.58	AAAA
ATOM	2110	0			272	-10.002	47.454	38.618	1.00 74.67	AAAA
ATOM	2111	N			273	-10.029	45.211	38.343	1.00 77.35	AAAA
ATOM	2112	CA	ARG	Α	273	-10.301	44.918	39.742	1.00 77.99	AAAA
MOTA	2113	CB	ARG	Α	273	-10.834	43.488	39.875	1.00 80.91	AAAA
ATOM	2114	CG	ARG	Α	273	-11.848	43.098	38.805	1.00 85.02	AAAA
MOTA	2115	CD	ARG	Α	273	-13.084	43.993	38.836	1.00 88.44	AAAA
ATOM	2116	NE	ARG	Α	273	-13.889	43.848	37.624	1.00 89.23	AAAA
ATOM	2117	CZ	ARG	Α	273	-14.981	44.558	37.350	1.00 89.65	AAAA
ATOM	2118	NH1				-15.415	45.477	38.205	1.00 89.11	AAAA
ATOM	2119	NH2				-15.638	44.349	36.215	1.00 88.99	AAAA
ATOM	2120	C			273	-9.061	45.086	40.619	1.00 76.88	AAAA
	2121	ō			273	-7.973	44.599	40.289	1.00 76.21	AAAA
ATOM		N			274	-9.245	45.799	41.727	1.00 74.92	AAAA
MOTA	2122				274	-8.200	46.043	42.718	1.00 73.59	AAAA
ATOM	2123	CA				-7.401	44.754	42.710	1.00 72.11	AAAA
ATOM	2124	CB			274				1.00 70.44	AAAA
ATOM	2125	CG			274	-6.805	44.699	44.366	1.00 76.44	AAAA
MOTA	2126		ASN			-7.502	44.904	45.359		AAAA
ATOM	2127				274	-5.512	44.411	44.447	1.00 71.38	
ATOM	2128	C			274	-7.251	47.214	42.433	1.00 72.90	AAAA
ATOM	2129	0			274	-6.244	47.392	43.125	1.00 72.58	AAAA
ATOM	2130	N			275	-7.561	48.004	41.413	1.00 71.12	AAAA
ATOM	2131	CA			275	-6.751	49.174	41.108	1.00 68.67	AAAA
MOTA	2132	CB	TYR	A	275	-6.455	49.276	39.616	1.00 67.88	AAAA
ATOM	2133	CG	TYR	A	275	-5.250	48.481	39.190	1.00 67.42	AAAA
MOTA	2134	CD1	TYR	A	275	-5.275	47.089	39.191	1.00 68.27	AAAA
MOTA	2135	CE1	TYR	A	275	-4.152	46.348	38.830	1.00 68.51	AAAA
MOTA	2136	CD2	TYR	. A	275	-4.071	49.120	38.815	1.00 66.02	AAAA
ATOM	2137	CE2	TYR	A	275	-2.945	48.393	38.453	1.00 67.51	AAAA
ATOM	2138	CZ	TYR	A	275	-2.991	47.005	38.465	1.00 68.39	AAAA
ATOM	2139	OH	TYR	A	275	-1.874	46.276	38.127	1.00 67.65	AAAA
MOTA	2140	C	TYR	A	275	-7.575	50.361	41.551	···1.00 67.62	AAAA
MOTA	2141	0	TYR	A	275	-8.785	50.251	41.710	1.00 67.44	AAAA
ATOM	2142	N	VAL	A	276	-6.934	51.496	41.765	1.00 67.45	AAAA
ATOM	2143	CA			276	-7.676	52.666	42.192	1.00 68.16	AAAA
ATOM	2144	CB	VAL	. A	276	-6.932	53.423	43.296	1.00 68.04	AAAA
ATOM	2145				276	-7.734	54.635	43.721	1.00 67.32	AAAA
ATOM	2146				276	-6.692	52.501	44.472		AAAA
ATOM	2147	C			276	-7.927	53.602	41.023	1.00 68.99	AAAA
ATOM	2148	ō			276	-7.072	53.766	40.151	1.00 68.87	AAAA
ATOM	2149	N			277	-9.111	54.207	41.011	1.00 70.12	AAAA
ATOM	2150	CA			277	-9.498	55.134	39.953	1.00 70.77	AAAA
ATOM	2151	CB			277	-10.972	54.904	39.539	1.00 71.08	AAAA
	2152				277	-11.331	55.781	38.354	1.00 71.16	AAAA
ATOM						-11.184	53.436	39.192	1.00 70.28	AAAA
ATOM	2153				277	-9.307	56.574	40.425	1.00 70.34	AAAA
	2154	C			277			41.482	1.00 69.53	AAAA
ATOM	2155	0			277	-9.801	56.963		1.00 70.66	AAAA
ATOM	2156	N			278	-8.583	57.359	39.634	1.00 70.30	AAAA
MOTA	2157	CA			278	-8.306	58.745	39.977		AAAA
ATOM	2158	CB			278	-6.857	59.096	39.653	1.00 72.21	
ATOM	2159				278	-6.035	57.944	39.859	1.00 71.71	AAAA
MOTA	2160				. 278	-6.370	60.218	40.564	1.00 73.70	AAAA
MOTA	2161	С			278	-9.202	59.752	39.261	1.00 71.78	AAAA
ATOM	2162	0			. 278	-9.924	59.413	38.326	1.00 71.98	AAAA
ATOM	2163	N	ASE	A	279	-9.138	60.999	39.719	1.00 72.04	AAAA
MOTA	2164	CA	ASE	? A	279	-9.912	62.097	39.148	1.00 71.77	AAAA
ATOM	2165	CB	ASE	? A	279	-9.657	63.381	39.944	1.00 73.33	AAAA
MOTA	2166	CG	ASE	PA	279	-10.280	63.348	41.329	1.00 75.58	AAAA
ATOM	2167				279	-9.850	64.147	42.193		AAAA
ATOM	2168				279	-11.206	62.536		1.00 76.36	AAAA
ATOM	2169	С			279	-9.532	62.339		1.00 70.56	AAAA
ATOM	2170	0			279	-10.310	62.899	36.924	1.00 71.03	AAAA

ATOM	2171	N	HIS A	280	-8.329	61.906	37.328	1.00 68.86	AAAA
ATOM	2172	CA	HIS A	280	-7.794	62.081	35.982	1.00 66.47	AAAA
ATOM	2173	CB	HIS A	280	-6.281	62.266	36.058	1.00 66.61	AAAA
ATOM	2174	CG	HIS A	280	-5.851	63.265	37.081	1.00 66.61	AAAA
MOTA	2175		HIS A		-5.150	63.119	38.229	1.00 67.87	AAAA
ATOM	2176	ND1	HIS A	280	-6.155	64.605	36.985	1.00 67.29	AAAA
ATOM	2177	CEI	HIS A	200	-5.658				
						65.241	38.030	1.00 67.94	AAAA
ATOM	2178	NE2	HIS A	280	-5.044	64.362	38.800	1.00 66.93	AAAA
ATOM	2179	С	HIS A	280	-8.099	60.922	35.043	1.00 65.12	AAAA
ATOM	2180	0	HIS A	280	-7.426	60.749	34.026	1.00 65.02	AAAA
ATOM	2181	N	GLY A	281	-9.104	60.127	35.382	1.00 63.61	AAAA
ATOM	2182	CA	GLY A		-9.453	59.002	34.535	1.00 61.53	AAAA
ATOM	2183	С	GLY A	281	-8.276	58.084	34.273	1.00 59.92	AAAA
MOTA	2184	0	GLY A	261	-7.904	57.852	33.124	1.00 60.61	AAAA
ATOM	2185	N	SER A	282	-7.687	57.566	35.346	1.00 58.23	AAAA
ATOM	2186	CA	SER A						
					-6.548	56.658	35.241	1.00 56.74	AAAA
ATOM	2187	CB	SER A	282	-5.228	57.442	35.277	1.00 56.18	AAAA
ATOM	2188	OG	SER A	282	-5.042	58.098	36.523	1.00 56.20	AAAA
MOTA	2189	С	SER A	282	-6.577	55.645	36.382	1.00 55.75	AAAA
ATOM	2190	0	SER A	282	-7.183	55.885	37.425	1.00 55.71	AAAA
ATOM	2191	N	CYS A	283	-5.921	54.510	36.179	1.00 54.44	AAAA
ATOM	2192	CA	CYS A	283	-5.882	53.468	37.189	1.00 54.50	AAAA
ATOM	2193	С	CYS A			53.430	37.827	1.00 53.90	
					-4.500				AAAA
ATOM	2194	0	CYS A	283	-3.505	53.141	37.159	1.00 51.70	AAAA
ATOM	2195	CB	CYS A	283	-6.206	52.127	36.543	1.00 57.15	
									AAAA
ATOM	2196	SG	CYS A	283	-7.518	52.25 <b>7</b>	35.290	1.00 57.30	AAAA
ATOM	2197	N	VAL A	284	-4.451	53.731	39.122	1.00 53.41	AAAA
ATOM	2198	CA	VAL A	284	-3.196	53.763	39.861	1.00 53.72	AAAA
ATOM	2199	CB	VAL A	284	-2.983	55.121	40.542	1.00 52.30	AAAA
ATOM	2200	CGT	VAL A	284	-3.075	56.238	39.516	1.00 51.69	AAAA
ATOM	2201	CG2	VAL A	284	-4.004	55.311	41.647	1.00 49.69	AAAA
ATOM	2202	С	VAL A		-3.184	52.715	40.949	1.00 55.99	AAAA
ATOM	2203	0	VAL A	284	-4.244	52.252	41.376	1.00 55.32	AAAA
ATOM	2204	N	ARG A	285	-1.980	52.362	41.405	1.00 58.06	AAAA
MOTA	2205	CA	ARG A	285	-1.809	51.366	42.459	1.00 59.96	AAAA
ATOM	2206	CB	ARG A	285	-0.590	50.490	42.165	1.00 58.37	AAAA
ATOM	2207	CG	ARG A		-0.799	49.572	40.978		AAAA
								1.00 59.24	
ATOM	2208	CD	ARG A	285	0.003	48.293	41.105	1.00 58.41	AAAA
ATOM	2209	NE	ARG A	285	1.408	48.466	40.756	1.00 58.50	AAAA
ATOM	2210	CZ	ARG A	285	1.940	48.059	39.609	1.00 57.44	AAAA
ATOM	2211	NH1	ARG A	285	1.173	47.459	38.709	1.00 55.75	AAAA
ATOM	2212	NH2							
					3.235	48.238	39.370	1.00 55.65	AAAA
ATOM	2213	С	ARG A	285	-1.678	52.002	43.838	1.00 62.01	AAAA
ATOM	2214	0	ARG A	285	-1.771	51.324	44.857	1.00 60.61	AAAA
ATOM	2215	N	ALA A	286	-1.466	53.312	43:860	1.00 66.35	AAAA
ATOM	2216	CA	ALA A	286	-1.334	54.050	45.109	1.00 70.62	AAAA
MOTA	2217	CB	ALA A		0.088	53.961	45.615	1.00 70.20	AAAA
ATOM	2218	С	ALA A	286	-1.711	55.503	44.870	1.00 74.36	AAAA
ATOM	2219	0	ALA A	286	-1.322	56.088	43.858	1.00 73.97	AAAA
MOTA	2220	N	CYS A	287	-2.470	56.083	45.796	1.00 78.98	AAAA
ATOM	2221	CA	CYS A	287	-2.890	57.473	45.667	1.00 84.13	AAAA
ATOM									
	2222	C	CYS A		-1.738	58.409	46.010	1.00 87.57	AAAA
ATOM	2223	0	CYS A	287	-0.573	58.006	46.041	1.00 87.23	AAAA
MOTA	2224	CB	CYS A	287	-4.063	57.781	46.603	1.00 85.98	AAAA
ATOM	2225	SG	CYS A		-5.516	56.690	46.471	1.00 89.26	AAAA
MOTA	2226	N	GLY A	288	-2.082	59.666	46.277	1.00 91.71	AAAA
ATOM	2227	CA	GLY A		-1.084				
						60.660	46.625	1.00 95.74	AAAA
MOTA	2228	C	GLY A	288	-1.011	60.866	48.125	1.00 98.59	AAAA
ATOM	2229	0	GLY A	288	-1.816	60.314	48.879	1.00 98.93	AAAA
MOTA	2230	N	ALA A	289	-0.046	61.668	48.559	1.00100.90	AAAA
ATOM	2231	CA	ALA A	289	0.143	61.941	49.976	1.00103.37	AAAA
ATOM	2232	CB	ALA A		1.262	62.959	50.157	1.00103.87	AAAA
ATOM	2233	С	ALA A	289	-1.128	62.440	50.656	1.00104.94	AAAA
ATOM	2234	0	ALA A		-1.440	62.041	51.780	1.00105.13	AAAA
ATOM	2235	N	ALA A	290	-1.864	63.303	49.966	1.00106.71	AAAA
MOTA	2236	CA	ALA A		-3.084	63.880	50.515	1.00108.56	AAAA
MOTA	2237	CB	ALA A	290	-3.371	65.210	49.829	1.00108.76	AAAA
MOTA	2238	С	ALA A	290	-4.330	62.997	50.459	1.00109.65	AAAA
ATOM	2239								
		0	ALA A		-5.227	63.146	51.287	1.00110.13	AAAA
ATOM	2240	N	SER A	291	-4.392	62.078	49.500	1.00110.47	AAAA
ATOM	2241	CA	SER A		-5.568	61.217	49.355	1.00110.94	AAAA
ATOM	2242	CB	SER A	291	-5.756	60.841	47.879	1.00111.25	AAAA
ATOM	2243	OG	SER A	291	-5.889	61.990	47.060	1.00111.60	AAAA
MOTA	2244	С	SER A		-5.565	59.937	50.191	1.00110.77	AAAA
MOTA	2245	0	SER A	291	-4.631	59.669	50.947	1.00110.38	AAAA
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ATOM	2246	N	TYR	A	292	-6	5.642	59.169	50.044	1.00110.58	AAAA
ATOM	2247	CA	TYR	Α	292	-€	5.823	57.887	50.717	1.00111.08	AAAA
ATOM ·	2248	CB	TYR				7.460	58.056	52.107	1.00112.17	AAAA
MOTA	2249	CG	TYR				3.793	58.779	52.162	1.00113.92	АААА АААА
ATOM	2250		TYR				9.701	58.514 59.195	53.193 53.283	1.00114.53	AAAA
ATOM ATOM	2251 2252		TYR TYR				0.915 9.138	59.749	51.220	1.00114.20	AAAA
ATOM	2253		TYR				0.348	60.437	51.305	1.00113.79	AAAA
ATOM	2254	CZ	TYR				1.230	60.154	52.336	1.00114.12	AAAA
ATOM	2255	OH	TYR	Α	292	-12	2.424	60.830	52.419	1.00114.01	AAAA
MOTA	2256	С	TYR			-	7.697	57.007	49.820	1.00110.58	AAAA
MOTA	2257	0	TYR				7.693	57.189	48.605	1.00111.08	AAAA
ATOM	2258	N	GLU				8.444	56.065	50.393 49.573	1.00109.66 1.00108.40	AAAA AAAA
ATOM	2259	CA CB	GLU GLU				9.284 B.604	55.187 53.818	49.423	1.00103.40	AAAA
ATOM ATOM	2260 2261	CG	GLU				7.357	53.841	48.534	1.00105.27	AAAA
ATOM	2262	CD	GLU				6.773	52.456	48.279	1.00104.14	AAAA
ATOM	2263		GLU				7.556	51.517	48.023	1.00103.24	AAAA
ATOM	2264	OE2	GLU	A	293	-:	5.530	52.310	48.318	1.00102.37	AAAA
ATOM	2265	С	GLU				0.726	54.998	50.058	1.00108.20	AAAA
ATOM	2266	0	GLU				0.982	54.941	51.259	1.00108.35	дада дада
ATOM	2267	N	MET				1.659 3.084	54.905 54.711	49.108 49.408	1.00108.11	AAAA
ATOM ATOM	2268 2269	CA CB	MET MET				3.832	56.052	49.360	1.00108.76	AAAA
ATOM	2270	CG	MET				5.309	55.960	49.756	1.00109.70	AAAA
ATOM	2271	SD	MET				6.180	57.555	49.823	1.00110.19	AAAA
ATOM	2272	CE	MET	Α	294	-1	7.304	57.407	48.426	1.00109.59	AAAA
MOTA	2273	С	MET				3.715	53.743	48.404	1.00107.62	AAAA
MOTA	2274	0	MET				3.478	53.851	47.202	1.00107.43	AAAA
ATOM	2275	N	ALA				4.521	52.802 51.822	48.893 48.015	1.00107.51 1.00107.97	AAAA AAAA
ATOM ATOM	2276 2277	CA CB	ALA ALA				5.162 4.255	50.606	47.852	1.00107.46	AAAA
ATOM	2278	СВ	ALA				6.544	51.377	48.496	1.00108.19	AAAA
ATOM	2279	ō	ALA				7.393	52.209	48.823	1.00108.59	AAAA
ATOM	2280	N	GLU	Α	296	-1	6.757	50.059	48.517	1.00108.13	AAAA
ATOM	2281	CA	GLU	A	296	-1	8.016	49.436	48.947	1.00107.58	AAAA
MOTA	2282	CB	GLU				8.336	49.812	50.394	1.00107.42	AAAA
ATOM	2283	CG	GLU				7.881	48.755	51.370	1.00106.73	дада адад
ATOM	2284	CD	GLU				8.132 9.295	47.364 47.058	50.828 50.496	1.00105.96	AAAA
ATOM ATOM	2285 2286		GLU				7.166	46.582	50.722	1.00106.41	AAAA
ATOM	2287	C	GLU				9.226	49.716	48.069	1.00107.13	AAAA
ATOM	2288	ō	GLU				0.118	48.878	47.934	1.00105.58	AAAA
ATOM	2289	N	ASP	Α	297	-1	9.251	50.908	47.489	1.00108.00	AAAA
ATOM	2290	CA	ASP				0.319	51.325	46.593	1.00108.25	- AAAA
MOTA	2291	CB	ASP				1.196	52.387	47.262 47.898	1.00108.16	AAAA AAAA
ATOM	2292	CG OD1	ASP ASP				2.439	51.794 52.512	48.654	1.00103.19	AAAA
ATOM ATOM	2293 2294		ASP				2.733	50.609	47.632	1.00108.13	AAAA
ATOM	2295	C			297		9.669	51.872	45.323	1.00108.10	AAAA
ATOM	2296	ō			297	-1	9.497	53.083	45.155	1.00107.89	AAAA
ATOM	2297	N			298	-1	9.297	50.950	44.440	1.00107.63	AAAA
MOTA	2298	CA			298		8.653	51.313	43.194	1.00107.00	· AAAA
MOTA	2299	C			298		7.265	50.706	43.116 43.186	1.00106.60 1.00106.62	AAAA . AAAA
MOTA	2300 2301	N O			298 299		7.101	49.485 51.564	42.981	1.00105.33	AAAA
ATOM ATOM	2301	CA			299		4.881	51.115	42.890	1.00103.71	AAAA
MOTA	2303	CB			299		4.400	51.219	41.447	1.00103.55	AAAA
ATOM	2304	C			299		3.990	51.948	43.805	1.00102.61	AAAA
ATOM	2305	0			299	-1	4.274	53.116	44.065	1.00102.21	AAAA
ATOM	2306	N			300		.2.915	51.341	44.297	1.00101.29	AAAA
MOTA	2307	CA			300		1.988	52.044	45.173	1.00 99.74 1.00 99.37	AAAA AAAA
ATOM	2308	СВ			300		.0.835	51.127	45.569 44.441	1.00 98.46	AAAA
ATOM ATOM	2309 2310	С 0			300 300		.1.462	53.270 53.155	43.418	1.00 98.09	AAAA
ATOM	2311	N			301		1.783	54.445	44.964	1.00 97.31	AAAA
ATOM	2312	CA			301		1.343	55.688	44.357	1.00 96.32	AAAA
ATOM	2313	CB			301		2.537	56.453	43.804	1.00 95.72	AAAA
ATOM	2314	C			301		0.618	56.531	45.389	1.00 96.05	AAAA
ATOM	2315	0			301		0.949	56.496	46.574	1.00 95.28	AAAA
ATOM	2316	N			302		-9.616	57.278	44.935	1.00 96.42 1.00 96.80	AAAA AAAA
ATOM	2317	CA			302 302		-8.858 -9.711	58.147 59.380	45.825 46.055	1.00 98.80	AAAA
ATOM ATOM	2318 2319	0			302		LO.754	59.548	45.426	1.00 99.06	AAAA
ATOM:	2320	СВ			302		-7.532	58.579		1.00 94.62	AAAA
			J	•							

ATOM	2321	SG	CYS A	302	-6.387	57.239	44.722	1.00 92.46	AAAA
MOTA	2322	N	SER A	303	-9.269	60.242	46.958	1.00 99.54	AAAA
MOTA	2323	CA	SER A						
					-10.001	61.463	47.236	1.00100.90	AAAA
MOTA	2324	CB	SER A	303	-11.054	61.216	48.319	1.00101.51	AAAA
ATOM	2325	OG	SER A	303	-11.859	62.366	48.527	1.00103.04	AAAA
ATOM	2326	С	SER A	303	-9.017	62.541	47.673	1.00101.55	AAAA
ATOM	2327	ō							
			SER A		-8.297	63.100	46.844 ·	1.00102.25	AAAA
MOTA	2328	N	LYS A	304	-8.980	62.820	48.972	1.00101.77	AAAA
ATOM	2329	CA	LYS A	304	-8.087	63.837	49.517	1.00101.56	AAAA
ATOM	2330	CB	LYS A	304	-8.288	65.162	48.767	1.00101.20	AAAA
MOTA	2331	CG	LYS A		-7.026	65.991	48.573	1.00100.59	AAAA
MOTA	2332	CD	LYS A	304	-7.063	67.265	49.399	1.00100.68	AAAA
ATOM	2333	CE	LYS A	304	-5.860	68.145	49.096	1.00100.67	AAAA
ATOM	2334	NZ	LYS A	304	-5.848	69.391	49.910	1.00100.16	AAAA
ATOM	2335	c	LYS A						
					-8.421	64.008	50.999	1.00101.57	AAA <b>A</b>
MOTA	2336	0	LYS A	304	-9.588	63.953	51.390	1.00101.41	AAAA
ATOM	2337	N	CYS A	305	-7.397	64.198	51.824	1.00101.44	AAAA
ATOM	2338	CA	CYS A	305	-7.613	64.374	53.254	1.00101.11	AAAA
ATOM	2339	С	CYS A		-8.017				
						65.808	53.559	1.00101.70	AAAA
ATOM	2340	0	CYS A		-9.187	66.087	53.821	1.00102.45	AAAA
ATOM	2341	CB	CYS A	305	-6.350	64.011	54.046	1.00 99.60	AAAA
ATOM	2342	SG	CYS A	305	-5.939	62.234	54.074	1.00 96.32	AAAA
MOTA	2343	N	GLY A		-6.746	66.346	55.958	1.00 97.56	AAAA
	2344								
ATOM		CA	GLY A		-5.446	66.837	56.374	1.00 97.55	AAAA
MOTA	2345	С	GLY A	307	-4.797	65.906	57.378	1.00 97.42	AAAA
ATOM	2346	0	GLY A	307	-3.575	65.909	57.544	1.00 97.50	AAAA
ATOM	2347	N	ALA A	308	-5.625	65.107	58.047	1.00 97.08	AAAA
ATOM	2348								
		CA	ALA A		-5.152	64.150	59.044	1.00 96.34	AAAA
MOTA	2349	CB	ALA A	308	-6.271	63.849	60.044	1.00 95.92	AAAA
MOTA	2350	C	ALA A	308	-4.668	62.851	58.387	1.00 95.56	AAAA
MOTA	2351	0	ALA A	308	-4.649	61.793	59.024	1.00 96.07	AAAA
ATOM	2352	N	CYS A						
					-4.279	62.947	57.114	1.00 93.71	AAAA
ATOM	2353	CA	CYS A		-3.786	61.806	56.335	1.00 90.70	AAAA
MOTA	2354	C	CYS A	309	-2.846	60.898	57.125	1.00 87.47	AAAA
MOTA	2355	0	CYS A	309	-1.995	61.371	57.877	1.00 86.97	AAAA
ATOM	2356	СВ	CYS A		-3.061				
						62.305	55.075	1.00 92.15	AAAA
ATOM	2357	SG	CYS A		-3.991	62.169	53.509	1.00 94.02	AAAA
ATOM	2358	N	ALA A	310	-3.010	59.590	56.944	1.00 84.10	<b>A</b> AAA
MOTA	2359	CA	ALA A	310	-2.173	58.602	57.615	1.00 79.82	AAAA
ATOM	2360	CB	ALA A		-2.863	57.250	57.608	1.00 80.09	AAAA
ATOM	2361								
		C	ALA A		-0.835	58.514	56.886	1.00 76.93	AAAA
MOTA	2362	0	ALA A		-0.768	58.710	55.671	1.00 76.30	AAAA
ATOM	2363	N	ALA A	311	0.229	58.221	57.626	1.00 74.09	AAAA
ATOM	2364	CA	ALA A	311	1.562	58.130	57.037	1.00 71.46	AAAA
ATOM	2365	CB	ALA A		2.618	58.038	58.144	1.00 71.14	AAAA
ATOM									
	2366	C	ALA A		1.709	56.956	56.058	1.00 69.68	AAAA
ATOM	2367	0	ALA A	311	1.479	55.796	56.416	1.00 68.07	AAAA
ATOM	2368	N	VAL A	312	2.090	57.278	54.822	1.00 66.83	AAAA
ATOM	2369	CA	VAL A	31.2	2.279	56.283	53.770	1.00 64.46	AAAA
ATOM	2370	CB	VAL A		1.473	56.651	52.492	1.00 63.44	
									AAAA
ATOM	2371		VAL A		1.762	55.651	51.386	1.00 61.07	AAAA
ATOM	2372	CG2	VAL A	312	-0.019	56.685	52.799	1.00 61.63	AAAA
ATOM	2373	C	VAL A	312	3.758	56.185	53.396	1.00 63.89	AAAA
ATOM	2374	0	VAL A		4.335	57.132	52.855	1.00 64.25	AAAA
ATOM	2375								
		N	CYS A		4.365	55.035	53.676	1.00 62.37	AAAA
ATOM	2376	CA	CYS A		5.777	54.827	53.371	1.00 60.59	AAAA
ATOM	2377	C	CYS A	313	5.967	53.918	52.167	1.00 58.86	AAAA
ATOM	2378	0	CYS A	31.3	5.184	53.006	51.940	1.00 58.81	AAAA
ATOM	2379	СВ	CYS A			54.234			
					6.485		54.592	1.00 61.02	AAAA
ATOM	2380	SG	CYS A		6.203	55.217	56.101	1.00 62.70	AAAA
ATOM	2381	N	ASN A	314	7.001	54.180	51.382	1.00 57.78	AAAA
ATOM	2382	CA	ASN A	314	7.269	53.353	50.219	1.00 58.37	AAAA
MOTA	2383	СВ	ASN A		8.335	54.001	49.331	1.00 59.19	AAAA
ATOM	2384	CG	ASN A						
					7.823	55.243	48.628	1.00 60.57	AAAA
MOTA	2385		ASN A		6.645	55.322	48.275	1.00 60.81	AAAA
ATOM	2386	ND2	ASN A	314	8.707	56.213	48.404	1.00 60.24	AAAA
ATOM	2387	C	ASN A	314	7.724	51.966	50.663	1.00 57.66	AAAA
ATOM	2388	ō	ASN A		8.132	51.778		1.00 56.29	AAAA
							51.806		
ATOM	2389	И	GLY A		7.647	50.996	49.758	1.00 56.44	AAAA
ATOM	2390	CA	GLY A	315	8.049	49.650	50.108	1.00 55.97	AAAA
MOTA	2391	С	GLY A	315	9.331	49.234	49.425	1.00 56.05	AAAA
ATOM	2392	ō	GLY A		9.775	49.897	48.491	1.00 55.91	AAAA
ATOM	2393	N	ILE A						
					9.934	48.141	49.889	1.00 55.02	AAAA
ATOM	2394	CA	ILE A		11.165	47.659	49.287	1.00 56.18	AAAA
MOTA	2395	CB	ILE A	316	11.604	46.319	49.929	1.00 54.77	Aaaa

ATOM	2396	CG2	ILE A	316	12.488	45.534	48.975	1.00 54.10	AAAA
ATOM	2397	CG1	ILE A	316	12.378	46.583	51.216	1.00 52.71	AAAA
	2398		ILE A		11.637	47.385	52.225	1.00 53.24	AAAA
ATOM								1.00 57.95	AAAA
ATOM	2399	С	ILE P		10.953	47.476	47.782		
ATOM	2400	0	ILE A	316	9.943	46.925	47.354	1.00 58.12	AAAA
ATOM	2401	N	GLY A	317	11.893	47.951	46.976	1.00 60.12	AAAA
ATOM	2402	CA	GLY A		11.742	47.799	45.540	1.00 64.05	AAAA
							44.799	1.00 67.19	AAAA
ATOM	2403	C	GLY A		11.601	49.114			AAAA
ATOM	2404	0	GLY A	317	12.068	49.239	43.669	1.00 67.45	
ATOM	2405	N	ILE P	318	10.950	50.092	45.426	1.00 70.08	AAAA
ATOM	2406	CA	ILE A	318	10.767	51.413	44.822	1.00 73.11	AAAA
ATOM	2407	CB	ILE A		9.273	51.722	44.517	1.00 73.09	AAAA
								1.00 72.90	AAAA
ATOM	2408		ILE P		8.724	50.712	43.533	_	
ATOM	2409	CG1	ILE A	318	8.461	51.725	45.812	1.00 73.43	AAAA
ATOM	2410	CD1	ILE A	318	7.000	52.056	45.617	1.00 75.30	AAAA
ATOM	2411	С	ILE A	318	11.290	52.495	45.764	1.00 74.48	AAAA
ATOM	2412	ō	ILE A		11.839	52.189	46.825	1.00 73.82	AAAA
							45.368	1.00 75.85	AAAA
ATOM	2413	N	GLY A		11.107	53.755			
ATOM	2414	CA	GLY A	319	11.562	54.871	46.179	1.00 77.46	AAAA
ATOM	2415	C ·	GLY A	319	13.036	54.783	46.526	1.00 79.06	AAAA
ATOM	2416	0	GLY A	319	13.853	54.329	45.717	1.00 78.83	AAAA
MOTA	2417	N	GLU A	320	13.380	55.215	47.737	1.00 80.00	AAAA
ATOM	2418	CA		320	14.764	55.178	48.193	1.00 81.25	AAAA
						55.975	49.498	1.00 82.16	AAAA
ATOM	2419	CB	GLU A		14.917				
ATOM	2420	CG	GLU A	320	13.727	55.897	50.454	1.00 84.19	AAAA
ATOM	2421	CD	GLU A	320	13.860	56.845	51.649	1.00 85.60	AAAA .
ATOM	2422	OE1	GLU A	A 320	12.850	57.065	52.359	1.00 86.12	AAAA
ATOM	2423	OE2	GLU A	A 320	14.971	57.369	51.884	1.00 84.53	AAAA
ATOM	2424	С		A 320	15.314	53.762	48.382	1.00 81.33	AAAA
				A 320	16.475	53.593	48.757	1.00 82.58	AAAA
ATOM	2425	0						1.00 80.39	AAAA
ATOM	2426	И		A 321	14.496	52.747	48.113		
ATOM	2427	CA	PHE A	A 321	14.942	51.365	48.276	1.00 79.12	AAAA
MOTA	2428	CB	PHE A	A 321	14.123	50.661	49.361	1.00 80.00	AAAA
MOTA	2429	CG	PHE 2	A 321	13.685	51.562	50.481	1.00 80.57	AAAA
ATOM	2430		PHE A		12.570	52.375	50.337	1.00 80.90	AAAA
			PHE 2		14.374	51.585	51.687	1.00 81.40	AAAA
ATOM	2431						51.378	1.00 81.86	AAAA
ATOM	2432		PHE A		12.143	53.194			AAAA
ATOM	2433		PHE A		13.954	52.403	52.733	1.00 82.07	
ATOM	2434	CZ	PHE A	A 321	12.837	53.207	52.579	1.00 81.39	AAAA
ATOM	2435	С	PHE A	A 321	14.821	50.576	46.979	1.00 77.65	AAAA
ATOM	2436	0	PHE 7	A 321	14.462	49.401	46.997	1.00 77.17	AAAA
ATOM	2437	N		A 322	15.130	51.223	45.861	1.00 76.23	AAAA
				A 322	15.032	50.592	44.547	1.00 74.80	AAAA
MOTA	2438	CA					43.451	1.00 78.21	AAAA
ATOM	2439	CB		A 322	15.467	51.580			
ATOM	2440	CG	LYS	A 322	15.267	51.092	42.005	1.00 80.26	- AAAA
ATOM	2441	CD	LYS A	A 322	13.787	51.027	41.620	1.00 82.91	AAAA
ATOM	2442	CE	LYS 2	A 322	13.588	50.601	40.160	1.00 83.20	AAAA
ATOM	2443	NZ		A 322	12.144	50.450	39.792	1.00 82.23	AAAA
ATOM	2444	C		A 322	15.843	49.306	44.426	1.00 71.70	AAAA
						48.316	43.881	1.00 71.96	AAAA
ATOM	2445	0		A 322	15.361				AAAA
MOTA	2446	N		A 323	17.072	49.312	44.920	1.00 67.88	
ATOM	2447	CA	ASP I	A 323	17.891	48.115	44.829	1.00 64.97	AAAA
ATOM	2448	CB	ASP 2	A 323	19.210	48.409	44.108	1.00 68.57	AAAA
ATOM	2449	CG		A 323	19.046	48.514	42.598	1.00 71.53	AAAA
ATOM	2450			A 323	18.561	47.538	41.982	1.00 72.27	AAAA
						49.570	42.029	1.00 72.48	AAAA
ATOM	2451			A 323	19.408			1.00 61.44	AAAA
ATOM	2452	С		A 323	18.176	47.536	46.197		
ATOM	2453	0	ASP .	A 323	19.268	47.041	46.455	1.00 62.21	AAAA
ATOM	2454	N	SER .	A 324	17.186	47.593	47.072	1.00 56.50	AAAA
ATOM	2455	CA	SER .	A 324	17.332	47.061	48.413	1.00 52.77	AAAA
ATOM	2456	СВ		A 324	16.692	48.014	49.416	1.00 52.66	AAAA
					17.201	49.314	49.221	1.00 56.17	AAAA
ATOM	2457	OG C		A 324		45.706	48.480	1.00 49.36	AAAA
ATOM	2458	C		A 324	16.652			1.00 48.08	AAAA
ATOM	2459	0		A 324	15.456	45.599	48.211		
ATOM	2460	И	LEU .	A 325	17.408	44.678	48.849	1.00 44.46	AAAA
MOTA	2461	CA	LEU	A 325	16.862	43.330	48.939	1.00 41.37	AAAA
MOTA	2462	CB		A 325	17.997	42.308	49.034	1.00 37.68	AAAA
ATOM	2463	CG		A 325	18.858	42.203	47.784	1.00 37.42	AAAA
					19.672	40.942	47.859	1.00 36.15	AAAA
MOTA	2464			A 325			46.543	1.00 36.66	· AAAA
MOTA	2465			A 325	17.989	42.187		1.00 40.04	AAAA
ATOM	2466	С		A 325	15.880	43.045	50.074		
ATOM	2467	0	LEU	A 325	15.041	42.156	49.957	1.00 41.56	AAAA
ATOM	2468	N	SER	A 326	15.962	43.797	51.161	1.00 38.56	AAAA
ATOM	2469	CA		A 326	15.112	43.509	52.303	1.00 36.73	AAAA
ATOM	2470	СВ		A 326	15.699	42.279	53.024	1.00 34.71	AAAA
111 011		00	221	020					

MOTA	2471	OG	SER	Α	326	15.076	42.012	54.264	1.00	30.65	AAAA
ATOM	2472	С	SER	Δ	326	15.004	44.669	53.283	1 00	37.69	AAAA
ATOM	2473	0	SER			15.619	45.712	53.104		35.63	AAAA
ATOM	2474	N	ILE	Α	327	14.178	44.489	54.304	1.00	39.43	AAAA
ATOM	2475	CA	ILE	Α	327	14.068	45.486	55.340	1.00	41.94	AAAA
ATOM	2476	CB	ILE								
						12.976	45.132	56.358		42.73	AAAA
ATOM	2477	CG2	ILE	Α	327	13.070	46.065	57.55 <b>1</b>	1.00	43.32	AAAA
ATOM	2478	CG1	ILE	А	327	11.593	45.221	55.712	1.00	43.59	AAAA
ATOM											
	2479		ILE			11.135	46.626	55.436		45.47	AAAA
ATOM	2480	С	ILE	А	327	15.414	45.225	55.996	1.00	44.16	AAAA
ATOM	2481	0	ILE	Α	327	15.771	44.063	56.197	1.00	44.45	AAAA
MOTA	2482	N	ASN			16.182	46.266	56.300		44.39	AAAA
ATOM	2483	CA	ASN	Α	328	17.474	46.034	56.937	1.00	45.42	AAAA
ATOM	2484	CB	ASN	Δ	328	18.560	45.758	55.875	1 00	45.06	AAAA
ATOM	2485	CG	ASN	А	328	18.921	46.982	55.061	1.00	45.64	AAAA
ATOM	2486	OD1	ASN	А	328	19.135	48.045	55.627	1.00	48.88	AAAA
ATOM	2487		ASN			19.001	46.829	53.740		44.64	AAAA
ATOM	2488	С	ASN	Α	328	17.889	47.170	57.878	1.00	45.45	AAAA
ATOM	2489	0	ASN	А	328	17.240	48.221	57.919	1.00	45.92	AAAA
MOTA	2490	И	ALA			18.956	46.936	58.644		44.74	AAAA
ATOM	2491	CA	ALA	A	329	19.478	47.909	59.614	1.00	42.67	AAAA
MOTA	2492	CB	ALA	А	329	20.874	47.510	60.041	1.00	40.78	AAAA
	2493				329	19.495					AAAA
MOTA		С					49.329	59.070		42.13	
MOTA	2494	0	ALA	Α	329	19.075	50.273	59.739	1.00	42.60	AAAA
ATOM	2495	N	THR	А	330	19.971	49.481	57.845	1.00	40.97	AAAA
						20.027				40.78	AAAA
MOTA	2496	CA			330		50.791	57.246			
ATOM	2497	CB	THR	Α	330	20.703	50.744	55.894	1.00	39.81	AAAA
ATOM	2498	OG1	THR	А	330	22.001	50.150	56.020	1.00	38.87	AAAA
ATOM	2499				330 .	20.840	52.134	55.344		41.97	AAAA
ATOM	2500	С	THR	Α	330	18.656	51.417	57.053	1.00	43.88	AAAA
ATOM	2501	0	THR	Ά	330	18.386	52.502	57.567	1.00	45.93	AAAA
ATOM	2502	N			331	17.773	50.729	56.333	1.00	45.61	AAAA
ATOM	2503	CA	ASN	Α	331	16.449	51.282	56.035	1.00	45.35	AAAA
ATOM	2504	CB	ASN	A	331	15.941	50.711	54.700	1.00	45.20	AAAA
MOTA	2505	CG			331	15.752	49.194	54.734		45.50	AAAA
ATOM	2506	OD1	ASN	A	331	14.986	48.666	55.54 <b>7</b>	1.00	42.11	AAAA
ATOM	2507	ND2	ASN	Δ	331	16.449	48.489	53.839	1 00	43.65	AAAA
ATOM	2508	C			331	15.331	51.175	57.067		45.12	AAAA
ATOM	2509	0	ASN	Α	331	14.369	51.947	57.018	1.00	43.33	AAAA
MOTA	2510	N	TIE	Α	332	15.437	50.262	58.019	1.00	46.12	AAAA
ATOM	2511	CA			332					49.25	AAAA
						14.330	50.125	58.952			
ATOM	2512	CB	ILE	А	332	14.579	49.015	59.989	1.00	49.48	AAAA
ATOM	2513	CG2	ILE	Α	332	15.683	49.424	60.945	1.00	48.80	AAAA
ATOM	2514		ILE			13.268	48.719	60.724		48.50	AAAA
ATOM	2515	CDI	ILE			13.228	47.387	61.386 <sup>.</sup>	- 1.00	49.06	AAAA
ATOM	2516	С	ILE	Α	332	13.946	51.400	59.671	1.00	52.51	AAAA
ATOM	2517	0	ILE	Α	332	12.876	51.478	60.277	1.00	53.83	<b>AA</b> AA
ATOM	2518	N			333					56.43	AAAA
						14.810	52.408	59.603			
MOTA	2519	CA	LYS	A	333	14.520	53.67 <b>0</b>	60.263	1.00	56.96	AAAA
MOTA	2520	CB	LYS	Α	333	15.786	54.540	60.379	1.00	59.75	AAAA
ATOM	2521	CG			333					62.92	AAAA
						16.371	55.075	59.068			
MOŢA	2522	CD	LYS	A	333	17.455	56.133	59.347	1.00	64.32	AAAA
ATOM	2523	CE	LYS	A	333	17.871	56.917	58.093	1.00	64.71	AAAA
ATOM	2524	NZ			333	18.767					AAAA
							56.154	57.170		64.88	
ATOM	2525	С			333	13.431	54.413	59.507	T.00	56.90	AAAA
ATOM	2526	0	LYS	Α	333	12.530	54.985	60.114	1.00	55.22	AAAA
ATOM	2527	N			334		54.376	58.180		58.03	AAAA
						13.489					
A <b>T</b> OM	2528	CA	HIS	Α	334	12.496	55.082	57.392	1.00	59.93	AAAA
ATOM	2529	CB	HIS	A	334	12.899	55.108	55.921	1.00	60.73	AAAA
ATOM	2530	CG			334	13.377	56.453	55.463		64.02	AAAA
ATOM	2531				334	14.558	56.849	54.933	1.00	64.55	AAAA
MOTA	2532	ND1	HIS	Α	334	12.599	57.590	55.554	1.00	64.30	AAAA
ATOM	2533				334	13.280	58.626	55.101		63.92	AAAA
ATOM	2534				. 334	14.472	58.204	54.718		64.97	AAAA
MOTA	2535	C	HIS	A	. 334	11.060	54.599	57.543	1.00	61.09	AAAA
ATOM	2536	0			334	10.122	55.367	57.343		62.25	AAAA
MOTA	2537	N			. 335	10.861	53.341	57.904	1.00	62.27	AAAA
ATOM	2538	CA	PHE	Α	. 335	9.497	52.869	58.082	1.00	64.00	AAAA
ATOM	2539	CB			335	9.436	51.345	57.990		63.38	AAAA
ATOM	2540	CG	PHE	A	335	9.873	50.820	56.666	1.00	61.19	AAAA
ATOM	2541	CD1	PHE	A	335	11.222	50.734	56.351	1.00	61.60	AAAA
ATOM	2542				. 335	8.941	50.471	55.705		61.47	AAAA
ATOM	2543				335	11.635	50.310	55.092		60.99	AAAA
ATOM	2544	CE2	PHE	: A	. 335	9.346	50.046	54.445	1.00	60.60	AAAA
ATOM	2545	CZ			335	10.694	49.967	54.139		59.61	AAAA
111011	_010		LIL			10.094	-3.301	24.123	1.00	JJ. 01	VVV4

ATOM	2546	C	PHE A	335	9.041	53.368	59.443	1.00 65.97	AAAA
ATOM	2547	0	PHE A	335	8.180	52.782	60.099	1.00 67.11	AAAA
MOTA	2548	N	LYS F	336	9.653	54.483	59.831	1.00 67.69	AAAA
MOTA	2549	CA	LYS A	336	9.419	55.200	61.082	1.00 67.79	AAAA
MOTA	2550	CB	LYS P		9.392	56.711	60.782	1.00 71.31	AAAA
MOTA	2551	CG	LYS P		8.296	57.142	59.800	1.00 73.33	AAAA
MOTA	2552	CD	LYS A		8.427	58.604	59.351	1.00 76.96	AAAA
ATOM	2553	CE	LYS F		8.259	59.615	60.492	1.00 78.02	AAAA
ATOM	2554	NZ	LYS A		9.462	59.736	61.374	1.00 79.02	AAAA AAAA
ATOM	2555	C	LYS F		8.203	54.842	61.933	1.00 65.38 1.00 65.38	AAAA
ATOM	2556	0	LYS F		8.337 7.024	54.213 55.257	62.978 61.481	1.00 63.32	AAAA
ATOM	2557 2558	N CA	ASN A		7.024 5.778	55.257	62.214	1.00 63.32	AAAA
ATOM ATOM	2559	CB	ASN A		5.543	56.267	63.116	1.00 65.65	AAAA
ATOM	2560	CG	ASN A		4.519	56.019	64.203	1.00 69.14	AAAA
ATOM	2561		ASN A		4.755	55.234	65.126	1.00 71.04	AAAA
ATOM	2562		ASN A		3.373	56.695	64.107	1.00 70.06	AAAA
MOTA	2563	C	ASN A		4.669	54.947	61.169	1.00 60.61	AAAA
ATOM	2564	ō	ASN A		3.614	55.577	61.290	1.00 60.03	AAAA
ATOM	2565	N	CYS F		4.930	54.153	60.136	1.00 58.76	AAAA
ATOM	2566	CA	CYS A		4.005	53.955	59.026	1.00 55.22	AAAA
ATOM	2567	С	CYS F	338	2.760	53.157	59.358	1.00 52.01	AAAA
ATOM	2568	0	CYS A	338	2.785	52.246	60.176	1.00 50.20	AAAA
ATOM	2569	CB	CYS A	338	4.736	53.262	57.889	1.00 57.39	AAAA
ATOM	2570	SG	CYS A	338	6.414	53.917	57.642	1.00 62.46	AAAA
MOTA	2571	N	THR A	339	1.659	53.508	58.710	1.00 49.96	AAAA
ATOM	2572	CA	THR A	339	0.408	52.797	58.920	1.00 48.07	AAAA
ATOM	2573	CB	THR A	339	-0.763	53.768	59.194	1.00 48.20	AAAA
MOTA	2574		THR A		-0.783	54.788	58.191	1.00 48.76	AAAA
ATOM	2575	CG2	THR A		-0.621	54.405	60.559	1.00 49.44	AAAA
ATOM	2576	С	THR A		0.088	51.991	57.670	1.00 45.32	AAAA
MOTA	257 <b>7</b>	0	THR A		-0.602	50.984	57.724	1.00 44.84	AAAA
MOTA	2578	N	SER A		0.630	52.431	56.546	1.00 44.28	AAAA
MOTA	2579	CA	SER A		0.374	51.786	55.273	1.00 44.61	AAAA
ATOM	2580	CB	SER A		-0.755	52.518	54.547	1.00 45.24	AAAA
ATOM	2581	OG	SER A		-0.560	52.469	53.149	1.00 46.61	AAAA AAAA
ATOM	2582	C	SER A		1.600 2.301	51.782 52.789	54.392 54.292	1.00 44.36 1.00 46.75	AAAA
ATOM ATOM	2583 2584	N O	SER A		1.850	50.652	53.738	1.00 42.01	AAAA
ATOM	2585	CA	ILE A		2.994	50.544	52.851	1.00 40.41	AAAA
ATOM	2586	CB	ILE A		3.756	49.216	53.065	1.00 37.80	AAAA
ATOM	2587	CG2			4.968	49.165	52.173	1.00 34.26	AAAA
ATOM	2588		ILE 7		4.193	49.083	54.521	1.00 39.51	AAAA
ATOM	2589		ILE A		5.263	50.051	54.933	1.00 41.06	AAAA
ATOM	2590	C	ILE A	341	2.524	50.593	51.401	1.00 41.08	AAAA
ATOM	2591	o	ILE A	341	1.682	49.800	50.992	1.00 43.10	AAAA
ATOM	2592	N	SER A	A 342	3.043	51.537	50.628	1.00 40.94	AAAA
ATOM	2593	CA	SER A	342	2.684	51.605	49.221	1.00 41.01	AAAA
MOTA	2594	CB	SER A	A 342	2.682	53.040	48.696	1.00 41.60	AAAA
MOTA	2595	OG	SER A		1.492	53.697	49.098	1.00 49.05	AAAA
MOTA	2596	С		A 342	3.757	50.804	48.539	1.00 38.90	AAAA
MOTA	2597	0		A 342	4.822	51.322	48.200	1.00 40.62	AAAA
MOTA	2598	И		A 343	3.475	49.522	48.368	1.00 36.28	AAAA
MOTA	2599	CA		A 343	4.433	48.640	47.750	1.00 34.11	AAAA
ATOM	2600	C		A 343	4.534	47.364	48.551	1.00 34.36	AAAA AAAA
ATOM	2601	0		A 343	3.590	46.966	49.223	1.00 33.26 1.00 34.49	AAAA
ATOM	2602	N	ASP A		5.701 5.863	46.743 45.476	48.524 49.203	1.00 34.49	AAAA
ATOM ATOM	2603 2604	CA CB	ASP A		6.245	44.424	48.162	1.00 34.97	AAAA
ATOM	2605	CG	ASP A		5.631	44.710	46.810	1.00 35.02	AAAA
ATOM	2606		ASP I		6.381	44.982	45.848	1.00 31.97	AAAA
MOTA	2607		ASP A		4.387	44.677	46.725	1.00 34.28	AAAA
ATOM	2608	C		A 344	6.884	45.451	50.319	1.00 35.60	AAAA
ATOM	2609	ō		A 344	7.761	46.302	50.397	1.00 38.91	AAAA
ATOM	2610	N		A 345	6.767	44.446	51.174	1.00 33.46	AAAA
ATOM	2611	CA		A 345	7.715	44.262	52.239	1.00 32.32	AAAA
ATOM	2612	CB	LEU		7.018	44.312	53.592	1.00 33.49	AAAA
ATOM	2613	CG	•	A 345	6.672	45.730	54.047	1.00 33.24	AAAA
ATOM	2614		LEU .		6.249	45.719	55.505	1.00 31.24	AAAA
ATOM	2615		LEU .		7.897	46.617	53.856	1.00 33.92	AAAA
ATOM	2616	С		A 345	8.453	42.941	52.095	1.00 32.49	AAAA
ATOM	2617	0	LEU :	A 345	7.844	41.876	52.020	1.00 35.05	AAAA
ATOM	2618	N		A 346	9.772	43.013	52.019	1.00 29.99	AAAA .
ATOM	2619	CA		A 346	10.582	41.809	51.947	1.00 29.38	AAAA
ATOM	2620	CB	HIS.	A 346	11.564	41.840	50.781	1.00 28.89	AAAA

ATOM	2621	CG	HIS A	346	10.937	42.083	49.450	1.00 32	2.29	AAAA
ATOM	2622	CD2	HIS A	346	9.970	42.946	49.060			AAAA
								1.00 33		
ATOM	2623	NDT	HIS A	346	11.366	41.442	48.306	1.00 30	0.10	AAAA
ATOM	2624	CE1	HIS A	346	10.691	41.904	47.270	1.00 29	9.80	AAAA
ATOM	2625		HIS A							
					9.839	42.818	47.699	1.00 31	1.09	AAAA
ATOM	2626	С	HIS A	346	11.419	41.718	53.224	1.00 27	7.99	AAAA
ATOM	2627	0	HIS A	346	11.975	42.702	53.688	1.00 27	7 37	AAAA
ATOM	2628	N	ILE A	34/	11.510	40.530	53.785	1.00 27	7.84	AAAA
ATOM	2629	CA	ILE A	347	12.330	40.305	54.954	1.00 27	7.27	AAAA
ATOM	2630	CB	ILE A		11.476					
						40.161	56.220	1.00 27		AAAA
ATOM	2631	CG2	ILE A	347	12.360	39.847	57.421	1.00 25	5.35	AAAA
ATOM	2632	CG1	ILE A	347	10.726	41.464	56.471	1.00 24	4 20	AAAA
ATOM	2633		ILE A							
					9.633	41.346	57.477	1.00 26		AAAA
ATOM	2634	С	ILE A	347	13.090	39.017	54.676	1.00 27	7.66	AAAA
MOTA	2635	0	ILE A	347	12.556	37.928	54.845	1.00 28	2 43	AAAA
ATOM	2636		LEU A							
		N			14.326	39.149	54.208	1.00 28		AAAA
ATOM	2637	CA	LEU A	348	15.163	37.992	53.903	1.00 29	9.27	AAAA
ATOM	2638	CB	LEU A	348	15.856	38.193	52.561	1.00 28	3 21	AAAA
ATOM										
	2639	CG	LEU A		14.996	38.654	51.393	1.00 25	5.65	AAAA
ATOM	2640	CD1	LEU A	348	15.819	38.645	50.120	1.00 24	4.40	AAAA
MOTA	2641	CD2	LEU A	348	13.798	37.731	51.268	1.00 28		AAAA
ATOM	2642	С	LEU A		16.226	37.740	54.978	1.00 32	2.35	AAAA
ATOM	2643	0	LEU A	348	16.521	38.612	55.801	1.00 33	2.34	AAAA
ATOM	2644	N	PRO A	349	16.822	36.538	54.983	1.00 34	1 16	AAAA
ATOM	2645	CD	PRO A		16.666	35.428	54.031	1.00 35	5.80	AAAA
ATOM	2646	CA	PRO A	349	17.850	36.220	55.977	1.00 37	7.07	AAAA
ATOM	2647	CB	PRO A	3/0	18.287	34.802	55.582	1.00 37		
										AAAA
ATOM	2648	CG	PRO A	349	18.001	34.731	54.139	1.00 36	5.65	AAAA
ATOM	2649	С	PRO A	349	19.015	37.222	56.023	1.00 38	8.67	AAAA
ATOM	2650	0	PRO A		19.639					
						37.406	57.063	1.00 40	0.39	AAAA
ATOM	2651	N	VAL A	350	19.286	37.879	54.901	1.00 39	9.75	AAAA
ATOM	2652	CA	VAL A	350	20.364	38.856	54.828	1.00 39	9 94	AAAA
ATOM	2653	CB	VAL A							
					20.490	39.487	53.385	1.00 42	2.49	AAAA
ATOM	2654	CGI	VAL A	350	19.175	40.184	52.976	1.00 39	9.36	AAAA
ATOM	2655	CG2	VAL A	350	21.671	40.470	53.339	1.00 38	8.55	AAAA
ATOM	2656	С	VAL A							
					20.157	39.964	55.842	1.00 40		AAAA
MOTA	2657	0	VAL A		21.106	40.438	56.435	1.00 42	2.05	AAAA
MOTA	2658	N	ALA A	351	18.914	40.371	56.045	1.00 39	9.22	AAAA
ATOM	2659	CA	ALA A	351	18.620	41.427	57.001	1.00 40		AAAA
MOTA	2660	CB	ALA A		17.126	41.605	57.121	1.00 36	6.83	AAAA
ATOM	2661	С	ALA A	351	19.221	41.163	58.394	1.00 43	1.77	AAAA
ATOM	2662	0	ALA A	351	19.630	42.094	59.090	1.00 42	2 11	AAAA
ATOM	2663									
		N	PHE A		19.282	39.899	58.798	1.00 43	2.85	AAAA
MOTA	2664	CA	PHE A	352	19.804	39.570	60.113	1.00 42	2.01	AAAA
ATOM	2665	CB	PHE A	352	19.005	38.412	60 716.	1.00 39		AAAA
ATOM	2666	CG	PHE A		17.524	38.678	60.768	1.00 38	8.94	AAAA
ATOM	2667	CD1	PHE A	352	16.676	38.181	59.777	1.00 38	8.43	AAAA
ATOM	2668	CD2	PHE A	352	16.990	39.497	61.747	1.00 35		AAAA
ATOM	2669	CE1	PHE A							
					15.321	38.503	59.763	1.00 3		AAAA
MOTA	2670	CE2	PHE A	352	15.639	39.824	61.738	1.00 37	7.65	AAAA
ATOM	2671	CZ	PHE A	352	14.804	39.326	60.742	1.00 3		AAAA
ATOM	2672	C	PHE A							
					21.294	39.270	60.142	1.00 43		AAAA
ATOM	2673	0	PHE A	352	21.932	39.432	61.179	1.00 44	4.71	AAAA
ATOM	2674	N	ARG A	353	21.852	38.856	59.011	1.00 43		AAAA
ATOM	2675	CA	ARG A			38.556				
					23.277		58.935	1.00 43		AAAA
ATOM	2676	CB	ARG A	353	23.560	37.514	57.852	1.00 44	4.64	AAAA
ATOM	2677	CG	ARG A	353	23.098	36.104	58.191	1.00 50	n. 48	AAAA
ATOM	2678	CD	ARG A		23.567	35.099				
							57.151	0.01 50		AAAA
MOTA	2679	NE	ARG A	353	23.424	33.722	57.617	0.01 52	2.43	AAAA
ATOM	2680	CZ	ARG A	353	24.076	33.214	58.659	0.01 53	3.05	AAAA
ATOM	2681		ARG A							
					24.921	33.969	59.349	0.01 53		AAAA
ATOM	2682	NH2	ARG A	353	23.886	31.950	59.011	0.01 53	3.57	AAAA
MOTA	2683	С	ARG A	353	24.078	39.805	58.607	1.00 43		AAAA
ATOM	2684	ō	ARG A							
					25.260	39.893	58.925	1.00 4		AAAA
ATOM	2685	И	GLY A		23.416	40.779	57.993	1.00 43	3.06	AAAA
ATOM	2686	CA	GLY A	354	24.096	41.981	57.564	1.00 43	1.24	AAAA
ATOM	2687	C	GLY A							
					24.672	41.593	56.215	1.00 43		AAAA
MOTA	2688	0	GLY A	354	24.808	40.413	55.924	1.00 43	2.24	AAAA
ATOM	2689	N	ASP A	355	25.012	42.557	55.378	1.00 43		AAAA
ATOM	2690	CA	ASP A		25.563					
						42.219	54.078	1.00 4		AAAA
ATOM	2691	CB	ASP A		24.478	42.356	53.013	1.00 4	4.44	AAAA
MOTA	2692	CG	ASP A	355	24.975	42.012	51.634	1.00 4	4.27	AAAA
ATOM	2693		ASP A		25.553					
						40.912	51.465	1.00 4		AAAA
MOTA	2694		ASP A		24.780	42.840	50.722	1.00 4	4.02	AAAA
ATOM	2695	С	ASP A	355	26.764	43.085	53.706	1.00 48	8.15	AAAA
								• • • • • • • • • • • • • • • •		

ATOM	2696	0	ASP	А	355	26.643	44.302	53.595	1.00 48.77	AAAA
ATOM	2697	N	SER			27.916	42.449	53.499	1.00 49.79	AAAA
										AAAA
MOTA	2698	CA	SER	A	356	29.137	43.165	53.137	1.00 51.19	
MOTA	2699	CB	SER	Α	356	30.328	42.205	53.060	1.00 51.92	AAAA
ATOM	2700	OG	SER	Α	356	30.234	41.350	51.933	0.01 51.18	AAAA .
						29.028	43.895	51.806	1.00 52.03	AAAA
ATOM	2701	С	SER							
ATOM	2702	0	SER	А	356	29.094	45.119	51.758	1.00 53.64	AAAA
ATOM	2703	N	PHE	А	357	28.867	43.128	50.732	1.00 52.39	AAAA
ATOM	2704	CA	PHE			28.774	43.659	49.373	1.00 50.80	AAAA
MOTA	2705	CB	PHE	A	357	28.286	42.571	48.426	1.00 49.93	AAAA
MOTA	2706	CG	PHE	Α	357	29.193	41.379	48.363	1.00 48.68	AAAA
ATOM	2707	CD1	PHE	Δ	357	30.194	41.302	47.401	1.00 48.16	AAAA
							40.343	49.286	1.00 47.45	AAAA
ATOM	2708	CD2				29.064				
ATOM	2709	CE1	PHE	A	357	31.059	40.203	47.357	1.00 48.62	AAAA
ATOM	2710	CE2	PHE	Α	357	29.920	39.246	49.254	1.00 47.15	AAAA
ATOM	2711	CZ	PHE			30.918	39.174	48.289	1.00 48.58	AAAA
								49.238	1.00 50.49	AAAA
ATOM	2712	С	PHE			27.869	44.854			
MOTA	2713	0	PHE	А	357	27.931	45.569	48.240	1.00 51.56	AAAA
ATOM	2714	N	THR	Α	358	27.042	45.081	50.251	1.00 50.56	AAAA
ATOM	2715	CA			358	26.096	46.178	50.215	1.00 49.80	AAAA
										AAAA
ATOM	2716	CB	THR	Α	358	24.665	45.599	50.146	1.00 50.48	
MOTA	2717	. OG1	THR	Α	358	23.849	46.427	49.308	1.00 51.68	AAAA
MOTA	2718	CG2	THR	А	358	24.055	45.489	51.542	1.00 50.09	· AAAA
	2719	C			358	26.234	47.153	51.389	1.00 49.88	AAAA
ATOM										
ATOM	2720	0	THR	А	358	25.441	48.092	51.516	1.00 49.44	AAAA
ATOM	2721	N	HIS	A	359	27.242	46.921	52.235	1.00 50.83	AAAA
MOTA	2722	CA	HTS	A	359	27.538	47.760	53.406	1.00 51.50	AAAA
								52.961	1.00 55.37	AAAA
MOTA	2723	CB			359	27.940	49.161			
ATOM	2724	CG	HIS	А	359	29.125	49.183	52.052	1.00 59.82	AAAA
ATOM	2725	CD2	HIS	Α	359	30.355	48.630	52.178	1.00 62.01	AAAA
ATOM	2726	ND1				29.116	49.829	50.834	1.00 61.00	AAAA
										AAAA
ATOM	2727		HIS			30.291	49.673	50.249	1.00 64.63	
ATOM	2728	NE2	HIS	Α	359	31.060	48.949	51.044	1.00 65.51	AAAA
ATOM	2729	С	HIS	Α	359	26.397	47.882	54.397	1.00 51.39	AAAA
	2730	ō			359	26.082	48.981	54.862	1.00 51.24	AAAA
ATOM										
MOTA	2731	N	THR	Α	360	25.783	46.755	54.734	1.00 50.38	AAAA
ATOM	2732	CA	THR	Α	360	24.672	46.762	55.661	1.00 49.62	· AAAA
ATOM	2733	CB	THR	А	360	23.374	46.278	54.966	1.00 48.68	AAAA
					360	23.104	47.112	53.837	1.00 46.59	AAAA
ATOM	2734									
MOTA	2735	CG2	THR	А	360	22.183	46.358	55.919	1.00 50.02	AAAA
ATOM	2736	С	THR	Α	360	25.001	45.858	56.836	1.00 49.92	AAAA
ATOM	2737	0			360	25.399	44.715	56.650	1.00 51.23	AAAA
										AAAA
ATOM	2738	N	PRO	А	361	24.869	46.377	58.066	1.00 49.72	
ATOM	2739	CD	PRO	Α	361	24.733	47.814	58.382	1.00 49.73	AAAA
ATOM	2740	CA	PRO	А	361	25.154	45.603	59.276	1.00 49.05	AAAA
		СВ			361	25.575	46.676	60.265	1.00 49.54	AAAA
ATOM	2741									AAAA
MOTA	2742	CG			361	24.678	47.821	59.894	1.00 49.15	
ATOM	2743	С	PRO	Α	361	23.918	44.860	59.747	1.00 50.01	A <b>AA</b> A
ATOM	2744	0	PRO	Д	361	22.799	45.229	59.399	1.00 50.60	AAAA
	2745	N			362	24.097	43.813	60.562	1.00 50.77	AAAA
MOTA									1.00 50.01	AAAA
MOTA	2746	CD			362	25.332		61.175		
MOTA	2747	CA	PRO	Α	362	22.932	43.070	61.040	1.00 51.10	AAAA
MOTA	2748	CB	PRO	Α	362	23.505	42.238	62.179	1.00 49.45	AAAA
ATOM	2749	CG			362	24.882	41.952	61.712	1.00 49.56	AAAA
						21.827		61.513	1.00 52.33	AAAA
ATOM	2750	С			362					
ATOM	2751	0	PRO	Α	362	22.078	45.179	61.805	1.00 52.63	AAAA
ATOM	2752	N	LEU	Α	363	20.606	43.492	61.568	1.00 52.86	AAAA
ATOM	2753	CA			363	19.453	44.252	62.019	1.00 52.54	AAAA
								61.101	1.00 51.57	AAAA
ATOM	2754	CB			363	18.258				
MOTA	2755	CG			363	16.915	44.587	61.523	1.00 50.20	AAAA
MOTA	2756	CD1	LEU	Α	363	16.913	46.069	61.219	1.00 50.68	AAAA
ATOM	2757				363	15.775	43.889	60.791	1.00 48.63	AAAA
									1.00 54.65	AAAA
MOTA	2758	С			363	19.149		63.404		
MOTA	2759	0	LEU	Α	363	19.158	42.510	63.622	1.00 57.22	AAAA
MOTA	2760	N	ASP	Α	364	18.896	44.605	64.351	1.00 56.01	AAAA
ATOM	2761	CA			364	18.600		65.698	1.00 56.55	AAAA
										AAAA
ATOM	2762	CB			364	18:763		66.686	1.00 60.61	
ATOM	2763	CG	ASP	Α	364	18.680	44.869	68.130	1.00 63.59	AAAA
ATOM	2764	OD1	ASP	А	364	17.574	44.499	68.588	1.00 63.94	. AAAA
	2765				364	19.732		68.801	1.00 66.28	AAAA
MOTA										
MOTA	2766	С			364	17.172	43.656	65.712	1.00 55.38	AAAA
ATOM	2767	0	ASE	Α	364	16.234	44.404	65.455	1.00 55.75	AAAA
ATOM	2768	N			365	16.989		66.004	1.00 53.91	AAAA
									1.00 53.55	AAAA
ATOM	2769	CD			365	17.989		66.368		AAAA
ATOM	2770	CA	PRC	) A	365	15.647	41.802	66.035	1.00 53.19	~~~

ATOM	2771	СВ	PRO	А	365	15.845	40.531	66.849	1.00 51.	82 AAAA
ATOM	2772	CG			365	17.165	40.064	66.367	1.00 50.	
ATOM	2773	C								
					365	14.616	42.739	66.645	1.00 53.	
ATOM	2774	0			365	13.509	42.880	66.127	1.00 53.	40 AAAA
MOTA	2775	N	GLN	Α	366	14.990	43.400	67.734	1.00 53.	99 AAAA
ATOM	2776	CA	GLN			14.064	44.296	68.420	1.00 54.3	39 AAAA
ATOM	2777	CB	GLN	Α	366	14.738	44.923	69.642	1.00 55.	64 AAAA
ATOM	2778	CG	GLN	Α	366	15.253	43.904	70.652	1.00 58.	
MOTA	2779	CD			366	15.900	44.556	71.858	0.01 58.	
ATOM	2780		GLN			15.260	45.316	72.585	0.01 58.	
ATOM	2781		GLN							
						17.176	44.263	72.076	0.01 58.	
ATOM	2782	C			366	13.535	45.388	67.510	1.00 52.	
ATOM	2783	0			366	12.428	45.885	67.697	1.00 51.	91 AAAA
MOTA	2784	N	GLU	Α	367	14.329	45.740	66.513	1.00 52.	35 AAAA
ATOM	2785	CA	GLU	Α	367	13.968	46.790	65.577	1.00 52.	97 AAAA
ATOM	2786	CB	GLU	Α	367	15.106	46.989	64.583	1.00 53.	
ATOM	2787	CG	GLU	Α	367	15.246	48.411	64.097	1.00 56.	
ATOM	2788	CD	GLU			15.890	49.311	65.122	1.00 54.	
ATOM	2789		GLU							
ATOM	2790					17.056	49.056	65.483	1.00 55.	
			GLU			15.230	50.268	65.562	1.00 53.	
ATOM	2791	С	GLU			12.666	46.532	64.813	1.00 52.	61 AAAA
MOTA	2792	0	GLU			11.933	47.467	64.497	1.00 52.	41 AAAA
MOTA	2793	N	LEU	Α	368	12.383	45.268	64.520	1.00 51.	52 AAAA
ATOM	2794	CA	LEU	Α	368	11.184	44.907	63.777	1.00 50.	41 AAAA
ATOM	2795	CB			368	11.084	43.390	63.641	1.00 47.	
ATOM	2796	CG			368	12.121	42.696	62.768	1.00 45.	
ATOM	2797		LEU			12.069				
							41.210	63.028	1.00 44.	
ATOM	2798		LEU			11.867	43.013	61.309	1.00 44.	
ATOM	2799	С			368	9.899	45.422	64.402	1.00 51.	
ATOM	2800	0			368	8.895	45.599	63.713	1.00 53.	14 AAAA
MOTA	2801	N	ASP	Α	369	9.916	45.664	65.705	1.00 52.	93 AAAA
ATOM	2802	CA	ASP	Α	369	8.710	46.129	66.371	1.00 53.	55 AAAA
ATOM	2803	CB	ASP	Α	369	8.935	46.196	67.881	1.00 57.	
MOTA	2804	CG			369	9.127	44.813	68.496	1.00 59.	
ATOM	2805		ASP			8.453	43.858	68.041	1.00 61.	
ATOM	2806		ASP			9.939				
							44.678	69.434	1.00 61.	
ATOM	2807	C			369	8.231	47.455	65.817	1.00 52.	
ATOM	2808	0			369	7.122	47.899	66.094	1.00 52	
ATOM	2809	N			370	9.074	48.075	65.006	1.00 52.	34 AAAA
ATOM	2810	CA	ILE	Α	370	8.729	49.333	64.377	1.00 52.	45 AAAA
MOTA	2811	CB	ILE	Α	370	9.890	49.829	63.504	1.00 51.	40 AAAA
ATOM	2812	CG2	ILE	Α	370	9.425	50.958	62.611	1.00 52.	
ATOM	2813				370	11.057	50.262	64.391	1.00 52.	
ATOM	2814				370	12.249				
ATOM							50.847	63.629	1.00 51.	
	2815	С			370	7.493	49.136	63.493	1.00 53.	
ATOM	2816	0			370	6.616	50.000	63.419	1.00 54.	
ATOM	2817	N			371	7.429	47.983	62.835	1.00 53.	45 AAAA
ATOM	2818	CA	LEU	Α	371	6.334	47.655	61.934	1.00 52.	47 AAAA
ATOM	2819	CB	LEU	Α	371	6.669	46.360	61.200	1.00 51.	56 AAAA
ATOM	2820	CG	LEU	Α	371	8.017	46.327	60.471	1.00 50.	
ATOM	2821		LEU			8.307	44.921	60.008	1.00 49.	
ATOM	2822				371	7.998	47.273	59.285	1.00 51.	
ATOM	2823	C			371	4.937	47.536			
ATOM								62.547	1.00 52.	
	2824	0			371	3.961	47.454	61.808	1.00 54.	
ATOM	2825	N			372	4.834	47.535	63.876	1.00 53.	
ATOM	2826	CA			372	3.540	47.400	64.567	1.00 53.	
ATOM	2827	CB	LYS	Α	372	3.726	47.434	66.090	1.00 56.	18 AAAA
ATOM	2828	CG	LYS	Α	372	4.445	46.231	66.709	1.00 60.	98 AAAA
ATOM	2829	CD	LYS	A	372	4.345	46.278	68.247	1.00 63.	
ATOM	2830	CE			372	5.035	45.090	68.936	1.00 64.	
ATOM	2831	NZ			372	4.965	45.151	70.446	1.00 62.	
ATOM	2832									
		C			372	2.479	48.438	64.196	1.00 52.	
ATOM	2833	0			372	1.307	48.290	64.539	1.00 51.	
ATOM	2834	N			373	2.885	49.496	63.511	1.00 52.	
ATOM	2835	CA	THR	Ą	373	1.947	50.535	63.110	1.00 52.	28 AAAA
ATOM	2836	CB	THR	A	373	2.630	51.916	63.106	1.00 52.	37 AAAA
ATOM	2837	OG1	THR	Α	373	3.964	51.785	62.592	1.00 54.	
ATOM	2838				373	2.674	52.496	64.506	1.00 49.	
ATOM	2839	C			373	1.372	50.262	61.720	1.00 52.	
ATOM	2840	Ö			373	0.337				
ATOM							50.815	61.351	1.00 54.	
	2841	N			374	2.057	49.413	60.956	1.00 51.	
ATOM	2842	CA			374	1.635	49.049	59.607	1.00 49.	
ATOM	2843	CB			374	2.665	48.144	58.923	1.00 49.	
ATOM	2844	CG1	VAL	Α	374	2.268	47.915	57.484	1.00 47.	14 AAAA
ATOM	2845	CG2	VAL	Α	374	4.057	48.753	59.033	1.00 49.	10 AAAA

ATOM	2846	C '	VAL	Α	374 '		0.318	48.293	59.640		49.48	AAAA
ATOM	2847		VAL				0.257	47.135	60.063	1.00	48.17	AAAA
ATOM	2848		LYS			-	0.740	48.956	59.192	1.00	49.06	AAAA
ATOM	2849		LYS				2.050	48:341	59.174	1.00	47.47	AAAA
ATOM	2850		LYS				3.095	49.343	59.652	1.00	47.94	AAAA
ATOM	2851		LYS				-3.064	49.527	61.161	1.00	50.96	AAAA
			LYS				4.238	50.353	61.656	1.00	55.61	AAAA
ATOM	2852						-4.481	50.142	63.149	1.00	57.99	AAAA
MOTA	2853		LYS					48.727	63.455		59.93	AAAA
ATOM	2854		LYS				-4.854		57.813		45.46	AAAA
MOTA	2855		LYS				-2.423	47.774			45.09	AAAA
MOTA	2856		LYS				-3.285	46.901	57.726		43.54	AAAA
MOTA	2857		GLU				-1.769	48.253				AAAA
MOTA	2858	CA	GLU	Α	376		-2.063	47.756	55.419		42.32	
MOTA	2859	CB	GLU	Α	376	-	-3.228	48.538	54.784	_	45.81	AAAA
MOTA	2860	CG	GLU	Α	376	٠.	-2.825	49.678	53.826		50.81	AAAA
ATOM	2861	CD	GLU	Α	376	-	-4.016	50.249	53.051		52.44	AAAA
ATOM	2862	OE1	GLU	Α	376	-	-4.956	50.756	53.702	1.00	54.15	AAAA
ATOM	2863	OE2				-	-4.014	50.191	51.798	1.00	52.03	AAAA
ATOM	2864		GLU				-0.867	47.790	54.489	1.00	39.02	AAAA
		ō	GLU				-0.021	48.668	54.586	1.00	38.72	AAAA
ATOM	2865		ILE				-0.817	46.813	53.589	1.00	36.15	AAAA
MOTA	2866	N					0.247	46.690	52.597		34.67	AAAA
ATOM	2867	CA	ILE					45.415	52.845		33.22	AAAA
ATOM	2868	CB	ILE				1.089		51.767	_	30.67	AAAA
MOTA	2869		ILE				2.156	45.274			31.05	AAAA
MOTA	2870		ILE				1.704	45.467	54.249		27.03	AAAA
MOTA	2871	CD1	ILE				2.476	44.219	54.656			AAAA
ATOM	2872	C	ILE	Α	377		-0.408	46.587	51.212		34.43	
MOTA	2873	0	ILE	Α	377		-1.129	45.625	50.947		35.00	AAAA
ATOM	2874	N	THR	Α	378		-0.157	47.560	50.333		32.45	AAAA
ATOM	2875	CA	THR	Α	378		-0.765	47.534			33.19	AAAA
ATOM	2876	CB	THR	Α	378		-0.665	48.911	48.300		33.39	AAAA
ATOM	2877	OG1	THR	Α	378		0.701	49.231	48.018	1.00	33.93	AAAA
ATOM	2878	CG2	THR	Α	378		-1.262	49.985	49.173	1.00	30.18	AAAA
ATOM	2879	С			378		-0.194	46.457	48.083	1.00	34.40	AAAA
ATOM	2880	Ö			378		-0.912	45.882	47.270	1.00	35.39	AAAA
ATOM	2881	N			379		1.098	46.181	48.215	1.00	35.20	AAAA
	2882	CA			379		1.722	45.160	47.395	1.00	33.28	AAAA
MOTA	2883	C			379		1.634	43.807	48.074		33.66	AAAA
MOTA		Ö			379		0.541	43.344	48.372		32.90	AAAA
ATOM	2884						2.781	43.177	48.324		33.30	AAAA
ATOM	2885	N			380		2.819	41.877	48.981		31.58	AAAA
ATOM	2886	CA			380			40.799	47.957		29.54	AAAA
MOTA	2887	CB			380		3.160		47.387		29.03	AAAA
ATOM	2888	CG			380		4.555	40.903	48.049		28.62	AAAA
MOTA	2889				380		5.642	40.330			29.50	AAAA
ATOM	2890	CD2			380		.4.782	41.532	46.168		26.20	AAAA
MOTA	2891				380		6.941	40.372	47.505			AAAA
ATOM	2892	CE2	PHE	A	380		6.082	41.581	45.614		29.64	AAAA
MOTA	2893	CŻ			380		7.159	40.995	46.290		26.34	
MOTA	2894	С	PHE	Α	380		3.810		50.163		32.87	AAAA
MOTA	2895	0	PHE	Α	380		4.696	42.664	50.298		32.63	AAAA
ATOM	2896	N	LEU	Α	381		3.622				32.07	AAAA
ATOM	2897	CA	LEU	A	381		4.464	40.593	52.190		30.36	AAAA
ATOM	2898	CB	LEU	A	381		3.591	40.523	53.442		29.96	AAAA
ATOM	2899	CG	LEU	A	381		4.144	39.943	54.749		30.63	AAAA
ATOM	2900				381		5.472	40.586	55.107	1.00	31.13	AAAA
ATOM	2901	CD2	LEU	ΙA	381		3.116	40.176	55.858	1.00	28.83	AAAA
ATOM	2902	C			381		5.206	39.271	51.983	1.00	29.63	AAAA
	2903	o			381		4.589	38.217	51.919	1.00	30.25	AAAA
MOTA					382		6.526	39.338		1.00	27.52	AAAA
ATOM	2904	N			382		7.347	38.148			26.93	AAAA
MOTA	2905	CA					8.148	38.284			0 22.94	AAAA
MOTA	2906	CB			382		9.303	37.305			0 20.87	AAAA
MOTA	2907	CG			382		8.776	35.892			0 24.10	AAAA
MOTA	2908				382						0 16.01	AAAA
MOTA	2909				382		10.052	_			0 29.42	AAAA
MOTA	2910				382		8.313				0 29.42	AAAA
MOTA	2911	0			382		9.223	_			0 28.34	AAAA
MOTA	2912	N			383		8.113					
ATOM	2913	CA			383		8.973				0 28.38	AAAA
ATOM	2914	CB			888		8.163				0 27.00	AAAA
ATOM	2915	CG2	IL	E 7	383		9.108	36.467			0 26.88	AAAA
ATOM	2916				383		7.308	37.843			0 27.28	AAAA
ATOM	2917				X 383		6.306	37.787	57.328		0 24.13	AAAA
ATOM	2918				383		9.746		54.574		0 28.30	
ATOM	2919				X 383		9.190		54.734		0 27.86	
ATOM	2920				A 384		11.037			1.0	0 30.90	AAAA
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ATOM	2921	CA	GLN A	384	11.898	34.314	54.114	1.00 32.20	AAAA
ATOM	2922	CB	GLN A		12.737	34.423	52.840	1.00 31.91	AAAA
ATOM	2923	CG	GLN A		11.921	34.449	51.570	1.00 31.54	AAAA
ATOM	2924	CD							
			GLN A		12.779	34.311	50.334	1.00 34.67	Aaaa
ATOM	2925		GLN A		12.329	34.558	49.221	1.00 36.67	AAAA
ATOM	2926	NE2	GLN A	384	14.021	33.907	50.522	1.00 34.13	AAAA
ATOM	2927	С	GLN A	384	12.809	34.117	55.331	1.00 32.74	AAAA
ATOM	2928	0	GLN A		13.576	33.153	55.393	1.00 33.81	AAAA
ATOM	2929	N	ALA A		12.703	35.013	56.308	1.00 33.98	
									AAAA
ATOM	2930	CA	ALA A		13.514	34.918	57.526	1.00 35.51	AAAA
ATOM	2931	CB	ALA A	385	14.929	35.421	57.252	1.00 34.58	AAAA
ATOM	2932	С	ALA A	385	12.885	35.700	58.675	1.00 36.69	AAAA
ATOM	2933	0	ALA A	385	12.213	36.708	58.460	1.00 38.44	AAAA
ATOM	2934	N	TRP A	386	13.083	35.220	59.897	1.00 37.42	AAAA
ATOM	2935	CA	TRP A						
					12.541	35.887	61.075	1.00 36.93	AAAA
ATOM	2936	CB	TRP A		11.221	35.251	61.492	1.00 33.19	Aaaa
ATOM	2937	CG	TRP A	386	10.308	36.173	62.260	1.00 31.66	Aaaa
ATOM	2938	CD2	TRP A	386	9.857	37.473	61.850	1.00 30.89	AAAA
ATOM	2939	CE2	TRP A	386	8.975	37.943	62.839	1.00 29.81	AAAA
ATOM	2940		TRP A		10.112	38.281	60.737	1.00 31.88	AAAA
ATOM	2941		TRP A						
					9.699	35.919	63.454	1.00 31.89	AAAA
ATOM	2942		TRP A		8.894	36.980	63.810	1.00 31.64	AAAA
ATOM	2943	CZ2	TRP A	386	8.345	39.185	62.749	1.00 32.35	AAAA
ATOM	2944	CZ3	TRP A	386	9.485	39.518	60.653	1.00 32.61	AAAA
ATOM	2945	CH2	TRP A	386	8.613	39.956	61.651	1.00 29.96	AAAA
ATOM	2946	С	TRP A		13.555	35.729	62.199	1.00 40.81	AAAA
ATOM	2947								
		0	TRP A		14.349	34.794	62.191	1.00 40.29	AAAA
MOTA	2948	N	PRO A		13.555	36.648	63.179	1.00 44.46	AAAA
ATOM	2949	CD	PRO A	387	12.795	37.898	63.345	1.00 44.75	AAAA
ATOM	2950	CA	PRO A	387	14.528	36.493	64.260	1.00 47.07	AAAA
ATOM	2951	CB	PRO A	387	14.150	37.607	65.222	1.00 46.83	AAAA
ATOM	2952	CG	PRO A		13.685	38.674	64.296	1.00 47.11	AAAA
ATOM	2953	С	PRO A		14.429	35.108	64.884	1.00 49.67	AAAA
ATOM	2954	0	PRO A		13.345	34.626	65.211	1.00 48.87	AAAA
ATOM	2955	N	GLU A	388	15.590	34.486	65.027	1.00 53.59	AAAA
ATOM	2956	CA	GLU A	388	15.745	33.147	65.571	1.00 57.22	AAAA
ATOM	2957	CB	GLU A	388	17.225	32.923	65.921	1.00 59.80	AAAA
ATOM	2958	CG	GLU A		18.196	32.910	64.718	1.00 62.49	AAAA
ATOM									
	2959	CD	GLU A		18.372	34.269	64.008	1.00 65.03	AAAA
ATOM	2960	OE1			19.161	34.318	63.037	1.00 66.51	AAA <b>A</b>
ATOM	2961	OE2	GLU A	. 388	17.744	35.282	64.399	1.00 65.04	AAAA
ATOM	2962	С	GLU A	388	14.862	32.770	66.768	1.00 58.89	AAAA
MOTA	2963	0	GLU A	388	14.222	31.708	66.757	1.00 59.31	AAAA
MOTA	2964	N	ASN A		14.818	33.617	67.795	1.00 59.06	AAAA
ATOM	2965	CA	ASN A						
					- 14.016	33.296	68.976	1.00 59.08	AAAA
ATOM	2966	CB	ASN A		14.813	33.549	70.261	1.00 60.84	AAAA
ATOM	2967	CG	ASN A		15.884	32.497	70.500	1.00 63.48	AAAA
ATOM	2968	OD1	ASN A	. 389	15.634	31.293	70.356	1.00 63.01	AAAA
ATOM	2969	ND2	ASN A	389	17.081	32.943	70.879	1.00 63.98	AAAA
ATOM	2970	C	ASN A	389	12.659	33.967	69.105	1.00 57.96	AAAA
ATOM	2971	ō	ASN A		12.236	34.297		1.00 57.66	AAAA
ATOM	2972		ARG A						
		N			11.980	34.185	67.986	1.00 56.49	AAAA
ATOM	2973	CA	ARG A		10.649	34.768	68.036	1.00 54.65	AAAA
ATOM	2974	CB	ARG A		10.553	35.995	67.150	1.00 56.18	AAAA
MOTA	2975	CG	ARG A	390	11.365	37.140	67.676	1.00 59.88	AAAA
ATOM	2976	CD	ARG A	390	10.779	38.453	67.247	1.00 63.03	AAAA
MOTA	2977	NE	ARG A	390	11.626	39.559	67.667	1.00 66.68	AAAA
ATOM	2978	CZ	ARG A		11.227				
						40.824	67.730	1.00 67.99	AAAA
ATOM	2979		ARG A		9.982	41.152	67.402	1.00 68.02	AAAA
MOTA	2980		ARG A		12.079	41.761	68.123	1.00 68.55	AAAA
MOTA	2981	C	ARG A	390	9.648	33.713	67.603	1.00 52.37	AAAA
MOTA	2982	0	ARG A	390	9.680	33.215	66.484	1.00 53.42	AAAA
ATOM	2983	N	THR A		8.769	33.372	68.526	1.00 50.09	AAAA
ATOM	2984	CA	THR A		7.756	32.355	68.325	1.00 47.66	AAAA
ATOM	2985	CB	THR A		6.998				
						32.137	69.658	1.00 46.75	AAAA
ATOM	2986		THR A		7.531	30.974	70.295	1.00 44.71	AAAA
MOTA	2987		THR A		5.489	32.002	69.451	1.00 46.77	AAAA
MOTA	2988	С	THR A	391	6.783	32.588	67.171	1.00 46.02	AAAA
ATOM	2989	0	THR P	391	6.329	31.631	66.551	1.00 45.22	AAAA
ATOM	2990	N	ASP A		6.461	33.845	66.884	1.00 43.37	AAAA
ATOM	2991	CA	ASP A						AAAA
					5.549	34.149	65.790	1.00 42.78	
ATOM	2992	CB	ASP A		4.097	34.061	66.259	1.00 42.82	AAAA
ATOM	2993	CG	ASP P		3.724	35.140	67.261	1.00 46.41	AAAA
MOTA	2994	OD1	ASP A	392	2.536	35.167	67.649	1.00 48.69	AAAA
ATOM	2995	OD2	ASP F	392	4.587	35.954	67.666	1.00 46.65	AAAA

ATOM	2996	С	ASP	А	392	5.836	35.516	65.182	1.00 41.53	AAAA
ATOM	2997	ō	ASP			6.817	36.158	65.539	1.00 42.13	AAAA
						4.992	35.956	64.257	1.00 39.22	AAAA
ATOM	2998	N	LEU			· ·				AAAA
ATOM	2999	CA	LEU			5.203	37.241	63.592	1.00 39.03	
ATOM	3000	CB	LEU	Α	393	4.708	37.160	62.144	1.00 37.42	AAAA
ATOM	3001	CG	LEU	Α	393	5.244	35.994	61.300	1.00 36.28	AAAA
ATOM	3002	CD1	LEU	Α	393	4.496	35.931	59.991	1.00 35.45	AAAA
ATOM	3003		LEU			6.715	36.143	61.059	1.00 33.25	ддда
										AAAA
ATOM	3004	С	LEU			4.501	38.381	64.331	1.00 39.67	
ATOM	3005	0	LEU	Α	393	3.715	39.136	63.743	1.00 40.39	AAA
ATOM	3006	N	HIS	Α	394	4.813	38.507	65.619	1.00 39.69	AAAA
ATOM	3007	CA	HIS	Α	394	4.222	39.526	66.484	1.00 39.27	AAAA
ATOM	3008	CB	HIS			4.910	39.532	67.857	1.00 40.55	AAAA
							40.305	68.898	1.00 42.72	AAAA
ATOM	3009	CG	HIS			4.159				
MOTA	3010		HIS			4.301	41.577	69.342	1.00 43.51	AAAA
ATOM	3011	ND1	HIS	Α	394	3.060	39.795	69.554	1.00 42.77	AAAA
ATOM	3012	CE1	$\mathtt{HIS}$	Α	394	2.556	40.719	70.353	1.00 41.69	AAAA
ATOM	3013		HIS			3.289	41.811	70.242	1.00 41.97	AAAA
	3014	C	HIS			4.292	40.926	65.893	1.00 38.79	AAAA
ATOM										AAAA
ATOM	3015	0	HIS			3.351	41.709	66.013	1.00 38.38	
ATOM	3016	N	ALA	Α	395	5.410	41.249	65.257	1.00 37.20	AAAA
ATOM	3017	CA	ALA	Α	395	5.554	42.571	64.674	1.00 35.92	AAAA
MOTA	3018	CB	ALA	Α	395	6.925	42.701	64.028	1.00 34.88	AAAA
ATOM	3019	C	ALA			4.462	42.932	63.662	1.00 36.31	AAAA
			ALA				44.104	63.343	1.00 37.51	AAAA
ATOM	3020	0				4.301				
MOTA	3021	N	PHE	А	396	3.728	41.937	63.147	1.00 34.95	AAAA
ATOM	3022	CA	PHE	Α	396	2.667	42.190	62.163	1.00 32.11	AAAA
ATOM	3023	CB	PHE	Α	396	2.853	41.330	60.905	1.00 28.04	AAAA
ATOM	3024	CG	PHE	Δ	396	3.968	41.767	60.007	1.00 24.47	AAAA
	3025	CD1				3.909	42.970	59.329	1.00 25.86	AAAA
MOTA										AAAA
MOTA	3026	CD2	PHE			5.075	40.970	59.827	1.00 22.38	
ATOM	3027	CE1	PHE	Α	396	4.944	43.370	58.487	1.00 22.17	AAAA
ATOM	3028	CE2	PHE	Α	396	6.108	41.365	58.990	1.00 22.12	AAAA
MOTA	3029	CZ	PHE	Α	396	6.039	42.565	58.324	1.00 21.32	AAAA
ATOM	3030	С			396	1.289	41.873	62.737	1.00 33.87	AAAA
						0.309	41.796	61.995	1.00 33.82	AAAA
ATOM	3031	0			396					
ATOM	3032	И	GLU			1.191	41.690	64.048	1.00 35.27	AAAA
ATOM	3033	CA	GLU	Α	397	-0.106	41.356	64.606	1.00 37.65	AAAA
ATOM	3034	CB	GLU	Α	397	0.016	40.929	66.058	1.00 39.15	AAAA
ATOM	3035	CG	GLU	А	397	0.339	42.015	67.046	1.00 40.94	AAAA
ATOM	3036	CD	GLU			0.031	41.548	68.458	1.00 42.45	AAAA
								68.735	1.00 41.69	AAAA
ATOM	3037	OE1				0.258	40.348			
ATOM	3038	OE2				-0.434	42.364	69.280	1.00 43.60	AAAA
ATOM	3039	С	GLU	Α	397	-1.191	42.419	64.477	1.00 39.31	AAAA
ATOM	3040	0	GLU.	Α	.397	-2.299	42.216	64.956	1.00 37.98	AAAA
ATOM	3041	N	ASN	Α	398	-0.880	43.541	63.833	1.00 40.58	AAAA
ATOM	3042	CA			398	-1.870	44.592	63.630	1.00 41.85	AAAA
			ASN				45.923	64.212	1.00 42.79	AAAA
MOTA	3043	CB				-1.397				
ATOM	3044	CG			398	-1.321				AAAA
MOTA	3045	OD1	ASN	Α	398	-2.222	45.395	66.395	1.00 42.06	AAAA
ATOM	3046	ND2	ASN	Α	398	-0.252	46.476	66.258	1.00 41.25	AAAA
ATOM	3047	C	ASN	Α	398	-2.158	44.777	62.146	1.00 43.00	AAAA
ATOM	3048	ō			398	-3.050	45.537	61.775	1.00 44.33	AAAA
							44.100	61.303	1.00 42.42	AAAA
ATOM	3049	N			399	-1.383				
ATOM	3050	CA			399	-1.580	44.164	59.865	1.00 42.43	AAAA
MOTA	3051	CB	LEU	Α	399	-0.602	43.232	59.156	1.00 40.93	AAAA
MOTA	3052	CG	LEU	Α	399	-0.826	43.085	57.650	1.00 39.84	AAAA
ATOM	3053	CD1	LEU	А	399	-0.655	44.452	56.990	1.00 40.60	AAAA
ATOM	3054		LEU			0.141	42.067	57.070	1.00 35.40	AAAA
									1.00 44.64	AAAA
MOTA	3055	C			399	-3.011	43.714	59.579		
MOTA	3056	0			399	-3.375	42.573	59.867	1.00 46.72	AAAA
ATOM	3057	N	GLU	Α	400	-3.821	44.607	59.016	1.00 44.78	AAAA
ATOM	3058	CA	GLU	Α	400	-5.214	44.287	58.730	1.00 44.74	AAAA
ATOM	3059	СВ			400	-6.113	45.482	59.080	1.00 47.98	AAAA
ATOM	3060	CG			400	-6.194	45.862	60.557	1.00 53.25	AAAA
								60.792	1.00 57.33	AAAA
MOTA	3061	CD			400	-7.079	47.086			
ATOM	3062		GLU			-6.744	48.177	60.275	1.00 59.63	AAAA
MOTA	3063	OE2	GLU	Α	400	-8.114	46.960	61.487	1.00 61.16	AAAA
ATOM	3064	С	GLU	Α	400	-5.516	43.872	57.292	1.00 42.82	AAAA
MOTA	3065	Ō			400	-6.299	42.951	57.069	1.00 41.36	AAAA
ATOM	3066	N			401	-4.904	44.552	56.323	1.00 40.71	AAAA
										AAAA
MOTA	3067	CA			401	-5.170	44.285	54.911	1.00 38.68	
MOTA	3068	CB			401	-6.059	45.438	54.279		AAAA
MOTA	3069	CG2	ILE	Α	401	-6.282	45.206	52.779	1.00 42.03	AAAA
ATOM	3070	CG1	ILE	Α	401	-7.437	45.511	54.952	1.00 43.20	AAAA

ATOM	3071	CD1	ILE A	401	-7.450	46.189	56.318	1.00 43.84	AAAA
MOTA	3072	C	ILE A	401	-3.913	44.171	54.065	1.00 36.42	AAAA
ATOM	3073	0	ILE A	401	-2.980	44.951	54.231	1.00 37.28	AAAA
ATOM	3074	N	ILE A	402	-3.893	43.184	53.173	1.00 32.73	AAAA
ATOM	3075	CA	ILE A	402	-2.797	42.992	52.223	1.00 32.20	AAAA
MOTA	3076	СВ	ILE A	402	-2.084	41.625	52.378	1.00 31.77	AAAA
MOTA	3077	CG2	ILE A	402	-1.119	41.403	51.205	1.00 27.65	AAAA
MOTA	3078	CG1	ILE A	402	-1.352	41.548	53.713	1.00 30.61	AAAA
ATOM	3079	CD1	ILE A	402	-0.577	40.247	53.899	1.00 30.46	AAAA
ATOM	3080	С	ILE A		-3.563	42.982	50.896	1.00 33.42	AAAA
ATOM	3081	0	ILE A		-4.300	42.035	50.615	1.00 32.63	AAAA
MOTA	3082	N	ARG A		-3.387	44.024	50.087	1.00 33.10	AAAA
MOTA	3083	CA	ARG A		-4.119	44.149	48.830	1.00 33.91	AAAA
ATOM	3084	СВ	ARG A		-4.269	45.631	48.473	1.00 34.86	AAAA
ATOM	3085	CG	ARG A		-5.147	46.404	49.452	1.00 34.32	AAAA
ATOM	3086	CD	ARG A		-5.340	47.836	48.989	1.00 35.94	AAAA
ATOM	3087	NE	ARG A		-5.860	48.690	50.056	1.00 35.87	AAAA
ATOM	3088	CZ	ARG A		-7.068	48.571	50.591	1.00 34.55	AAAA
ATOM	3089		ARG A		-7.908	47.638	50.155	1.00 35.36	AAAA
ATOM	3090		ARG A		-7.418	49.359	51.591	1.00 33.50	AAAA
ATOM	3091	C	ARG A		-3.646	43.382	47.598	1.00 34.25	AAAA
ATOM	3092	Ö	ARG A		-4.441	43.116	46.701	1.00 34.25	AAAA
ATOM	3093	N	GLY A		-2.367	43.038	47.544	1.00 34.00	AAAA
ATOM	3094	CA	GLY A		-1.860	42.301	46.403	1.00 33.18	AAAA
ATOM	3095	C	GLY A		-1.787	43.047	45.078	1.00 30.77	AAAA
ATOM	3096	ō	GLY A		-1.700	42.411	44.034	1.00 30.29	
ATOM	3097	И	ARG A		-1.816				AAAA
ATOM	3098	CA	ARG A			44.379	45.103	1.00 31.88	AAAA
ATOM	3099	CB	ARG A		-1.734	45.159	43.867	1.00 31.46	AAAA
ATOM	3100	CG	ARG A		-1.681	46.655	44.163	1.00 32.21	AAAA
ATOM	3100	CD	ARG A		-2.902	47.177	44.901	1.00 35.85	AAAA
ATOM	3101	NE	ARG A		-3.544	48.375	44.215	1.00 38.24	AAAA
					-4.866	48.637	44.771	1.00 40.90	AAAA
MOTA	3103	CZ	ARG A		-5.111	49.430	45.809	1.00 41.47	AAAA
ATOM	3104		ARG A		-4.122	50.065	46.415	1.00 43.47	AAAA
ATOM	3105		ARG A		-6.350	49.565	46.259	1.00 42.42	AAAA
ATOM	3106	C	ARG A		-0.491	44.735	43.110	1.00 33.27	AAAA
MOTA	3107	0	ARG A		-0.441	44.833	41.889	1.00 35.95	AAAA
ATOM	3108	N	THR A		0.524	44.290	43.845	1.00 32.60	AAAA
ATOM	3109	CA	THR A		1.753	43.788	43.242	1.00 30.80	AAAA
MOTA	3110	CB	THR A		2.967	44.728	43.476	1.00 29.99	AAAA
ATOM ATOM	3111 3112		THR A		2.854	45.358	44.749	1.00 31.07	AAAA
ATOM			THR A		3.034	45.806	42.404	1.00 27.41	AAAA
	3113	C	THR A		1.960	42.442	43.923	1.00 33.33	AAAA
ATOM ATOM	3114	0	THR A		1.582	42.277	45.093	1.00 33.06	AAAA
	3115	N	LYS A		2.512	41.468	43.194	1.00 32.61	AAAA
ATOM ATOM	3116	CA	LYS A		2.714	40.135	43.751	1.00 32.20	AAAA
ATOM	3117	CB	LYS A		1.629	39.207	43.225	1.00 35.33	AAAA
	3118	CG	LYS A		0.219	39.711	43.485	1.00 37.79	AAAA
MOTA	3119	CD	LYS A		-0.819			1.00 43.28	AAAA
ATOM	3120	CE	LYS A		-1.413	38.923	41.687	1.00 42.13	AAAA
MOTA	3121	NZ	LYS A		-2.341	40.087		1.00 42.06	AAAA
MOTA	3122	C	LYS A		4.085	39.520		1.00 31.39	AAAA
ATOM	3123	0	LYS A		4.719	39.829		1.00 30.69	AAAA
MOTA MOTA	3124 3125	N	GLN A		4.545	38.660	44.383	1.00 28.08	AAAA
		CA	GLN A		5.824	38.009		1.00 26.83	AAAA
ATOM ATOM	3126 3127	CB	GLN A		6.207	37.259		1.00 29.35	AAAA
ATOM		CG	GLN A		7.498	36.460	45.371	1.00 29.16	AAAA
	3128 3129	CD	GLN A		8.694	37.328		1.00 32.86	AAAA
MOTA			GLN A		8.565	38.379		1.00 33.61	AAAA
MOTA MOTA	3130		GLN A		9.876	36.891	45.504	1.00 32.46	AAAA
	3131 3132	С	GLN A		5.714	37.038	43.041	1.00 29.12	AAAA
ATOM ATOM	3132	O N	GLN A		4.789	36.233	42.980	1.00 29.53	AAAA
MOTA	3133	N CA	HIS A		6.661	37.110	42.115	1.00 31.98	AAAA
ATOM	3135	CB			6.649	36.251	40.933	1.00 32.56	AAAA
ATOM			HIS A		6.859	34.782	41.320	1.00 36.90	AAAA
ATOM	3136 3137	CG	HIS A		8.107	34.517	42.106	1.00 40.38	AAAA
ATOM					8.396	33.550	43.011	1.00 40.38	AAAA
	3138		HIS A		9.268	35.244	41.939	1.00 42.93	AAAA
ATOM	3139		HIS A		10.218	34.734	42.703	1.00 42.58	AAAA
ATOM	3140		HIS A		9.716	33.704	43.364	1.00 41.57	AAAA
ATOM	3141	C	HIS A		5.321	36.385	40.169	1.00 32.06	AAAA
ATOM	3142	0	HIS A		4.923	35.489	39.436	1.00 34.04	AAAA
ATOM	3143	N	GLY A		4.633	37.500		1.00 31.46	AAAA
ATOM	3144	CA			3.376		39.679	1.00 31.99	AAAA
MOTA	3145	С	GLY A	410	2.202	36.971	40.264	1.00 34.58	AAAA

ATOM	3146	0	GLY	Α	410	1.04	7	37.205	39.899	1.00	35.65	AAAA	
ATOM	3147	N	GLN			2.48	3 :	36.079	41.205	1.00	34.61	AAAA	
		CA	GLN			1.43		35.261	41.785	1.00	30.65	AAAA	
ATOM	3148							33.791	41.528		30.85	AAAA	
ATOM	3149	СВ	GLN			1.77	_		42.321		31.95	AAAA	
ATOM	3150	CG	GLN			0.92		32.821					
ATOM	3151	CD	GLN	Α	411	1.00		31.407	41.796		32.13	AAAA	
ATOM	3152	OE1	GLN	Α	411	1.93	31	31.054	41.055	1.00	30.07	AAAA	
MOTA	3153	NE2	GLN	Α	411	0.03	37	30.576	42.187	1.00	29.77	AAAA	
ATOM	3154	C	GLN			1.09		35.440	43.254	1.00	30.98	AAAA	
			GLN			-0.08		35.505	43.610		32.89	AAAA	
ATOM	3155	0									31.05	AAAA	
ATOM	3156	N			412	2.10		35.538	44.112				
MOTA	3157	CA	PHE	A	412	1.84		35.618	45.544		29.50	AAAA	
ATOM	3158	CB	PHE	Α	412	2.80		34.704	46.272		29.50	AAAA	
ATOM	3159	CG	PHE	Α	412	2.86	58	33.337	45.678	1.00	30.14	AAAA	
ATOM	3160	CD1	PHE	Α	412	3.72	28	33.062	44.628	1.00	27.26	AAAA	
ATOM	3161		PHE			2.02		32.335	46.129	1.00	30.75	AAAA	
	3162		PHE			3.74		31.813	44.045		29.95	AAAA	
ATOM								31.084	45.544		27.81	AAAA	
MOTA	3163		PHE			2.04						AAAA	
MOTA	3164	CZ			412	2.89		30.822	44.504		26.31		
MOTA	3165	С	PHE	Α	412	1.77		36.955	46.239		29.38	AAAA	
ATOM	3166	0	PHE	Α	412	2.57	70	37.865	46.023		32.43	AAAA	
ATOM	3167	N	SER	Α	413	0.77	75	37.028	47.103	1.00	27.36	AAAA	
ATOM	3168	CA			413	0.45	57	38.207	47.859	1.00	26.79	AAAA	
					413	-1.05		38.339	47.877	1.00	22.05	AAAA	
MOTA	3169	CB						39.398	48.714		34.64	AAAA	
MOTA	3170	OG			413	-1.41						AAAA	
ATOM	3171	С	SER	A	413	1.01		38.145	49.289		26.59		
MOTA	3172	0	SER	Α	413	1.3	58	39.169	49.877		24.96	AAAA	
ATOM	3173	N	LEU	Α	414	1.08	82	36.930	49.828		25.83	AAAA	
ATOM	3174	CA	LEU	Α	414	1.5	97	36.650	51.159	1.00	26.28	AAAA	
ATOM	3175	CB			414	0.40	66	36.382	52.146	1.00	26.82	AAAA	
	3176	CG			414	0.9		36.044	53.580	1.00	27.88	AAAA	
MOTA								37.203	54.165		23.02	AAAA	
ATOM	3177		LEU			1.6					27.17	AAAA	
MOTA	3178				414	-0.3		35.739	54.447			AAAA	
ATOM	3179	С	LEU	Α	414	2.4		35.391	51.029		27.59		
ATOM	3180	0	LEU	Α	414	1.9	14	34.355	50.613		28.43	AAAA	
ATOM	3181	N	ALA	A	415	3.6	97	35.478	51.385		27.64	AAAA	
ATOM	3182	CA	ALA	Α	415	4.5	93	34.341	51.294	1.00	27.39	, AAAA	
ATOM	3183	CB			415	5.5	27	34.530	50.115	1.00	23.83	AAAA	
ATOM	3184	C			415	5.3		34.170	52.586	1.00	29.02	AAAA	
						6.2		34.954	52.874		32.17	AAAA	
ATOM	3185	0			415			33.156	53.374		29.48	AAAA	
MOTA	3186	N			416	5.0					28.69	AAAA	
MOTA	3187	ÇA			416	5.7		32.891	54.612			AAAA	
ATOM	3188	CB	VAI	, A	416	4.8		32.839	55.813		28.71		
ATOM	3189	CG1	VAI	, A	416	5.6	16	32.517	57.077		31.26	AAAA	
ATOM	3190	CG2	VAI	. A	416	4.1	24	34.186	55.968 <sup>-</sup>	1:00	31.37	AAAA	
ATOM	3191	С	VAI	. A	416	6.4	69	31.550	54.470	1.00	29.24	AAAA	
ATOM	3192	ō			416	5.8		30.526	54.626	1.00	30.85	AAAA	
	3193	N			417	7.7		31.544	54.181	1.00	30.25	AAAA	
ATOM						8.4		30.276				AAAA	
ATOM	3194	CA			417						33.75	AAAA	
ATOM	3195	CB			417	8.7		29.990	52.498			AAAA	
ATOM	3196				417	7.4		30.072	51.698		36.76		
MOTA	3197	CG2	VAI	, A	417	9.7	91	30.969	51.956		32.33	AAAA	
ATOM	3198	С	VAI	, A	417	9.8	17	30.072	54.750		34.16	AAAA	
MOTA	3199	0	VAI	, A	417	10.5	52	31.015	55.037		33.48	AAAA	
ATOM	3200	N			418	10.0		28.802	55.032	1.00	36.16	AAAA	
ATOM	3201	CA			418	11.3		28.327	55.713	1.00	34.99	AAAA	
		CB			418	12.4		28.335	54.737		36.95	AAAA	
ATOM	3202							29.638	54.276		40.19	AAAA	
ATOM	3203	OG			418	12.7					34.42	AAAA	
MOTA	3204	C			418	11.7		29.004	57.008			AAAA	
ATOM	3205	0			418	12.9		29.226	57.221		35.63		
MOTA	3206	N	LE	J P	419	10.7	59	29.311	57.873		32.61	AAAA	
ATOM	3207	CA	LE	J P	419	11.0	37	29.942	59.160		31.43	AAAA	
ATOM	3208	CB			419	10.0		31.057	59.450		28.09	AAAA	
ATOM	3209	CG			419	9.7		32.153	58.431	1.00	27.65	AAAA	ı.
					419	8.6		33.082	59.011		27.00	AAAA	
ATOM	3210								58.092		26.15	AAAA	
ATOM	3211				419	10.9		32.941			33.50	AAAA	
MOTA	3212	С			419	10.9		28.923	60.301			AAAA	
ATOM	3213	0			419	10.6		27.761	60.088		32.61		
ATOM	3214	N	AS	1 7	420	11.2	210	29.377	61.521		36.81	AAAA	
ATOM	3215	CA	AS	N F	420	11.1	122	28.513	62.692		37.79	AAAA	
ATOM	3216	СВ			420	12.4	61	28.451	63.436		40.65	· AAAA	
ATOM	3217	CG			420	13.4				1.00	45.18	AAAA	
ATOM	3218				4 420	13.0		26.629			46.59	АААА	L.
	3219				420	14.7					46.78	AAAA	L
ATOM						10.0		28.947			36.56	AAAA	
ATOM	3220	С	MO	14 F	420	10.0	122	20.341	05.002				

ATOM	3221	0	ASN	Α	420	9.961	28.448	64.784	1.00 38.66	AAAA
ATOM .	3222	N	ILE	Α	421	9.148	29.862	63.234	1.00 33.59	AAAA
ATOM	3223	CA	ILE			8.045	30.326	64.082	1.00 32.49	AAAA
ATOM	3224	CB	ILE			7.232	31.440	63.384	1.00 32.43	AAAA
ATOM	3225	CG2								
						8.113	32.635	63.119	1.00 30.93	AAAA
MOTA	3226	CG1				6.669	30.917	62.053	1.00 34.10	AAAA
ATOM	3227	CD1	ILE	Α	421	5.656	31.835	61.402	1.00 29.68	AAAA
MOTA	3228	С	ILE	Α	421	7.106	29.149	64.376	1.00 31.48	AAAA
ATOM	3229	0	ILE	Α	421	6.994	28.236	63.562	1.00 32.07	AAAA
ATOM	3230	N			422	6.438	29.160	65.527	1.00 30.70	AAAA
ATOM	3231	CA								
					422	5.528	28.066	65.880	1.00 31.45	AAAA
ATOM	3232	CB			422	5.677	27.647	67.363	1.00 29.91	AAAA
ATOM	3233	OG1				5.460	28.777	68.211	1.00 32.39	AAAA
ATOM	3234	CG2	THR	Α	422	7.052	27.075	67.614	1.00 29.53	AAAA
MOTA	3235	С	THR	Α	422	4.054	28.370	65.607	1.00 32.25	AAAA
ATOM	3236	0	THR	Α	422	3.216	27.469	65.620	1.00 31.88	AAAA
ATOM	3237	N			423	3.747	29.646	65.390	1.00 32.71	AAAA
ATOM	3238	CA			423					AAAA
						2.402	30.095	65.059	1.00 33.06	
ATOM	3239	CB			423	1.598	30.400	66.313	1.00 33.84	AAAA
ATOM	3240	OG	SER	A	423	2.213	31.405	67.074	1.00 36.69	AAAA
ATOM	3241	С	SER	Α	423	2.576	31.349	64.212	1.00 34.36	AAAA
ATOM	3242	0	SER	Α	423	3.672	31.915	64.157	1.00 34.06	AAAA
ATOM	3243	N			424	1.519	31.780	63.531	1.00 33.03	AAAA
ATOM	3244	CA			424	1.647	32.959	62.680	1.00 32.77	AAAA
					424					
ATOM	3245	CB				0.648	32.889	61.514	1.00 28.78	AAAA
ATOM	3246	CG			424	1.046	31.884	60.426	1.00 27.49	AAAA
ATOM	3247	CDI	LEU	Α	424	-0.072	31.712	59.421	1.00 24.33	AAAA
ATOM	3248	CD2	LEU	Α	424	2.309	32.364	59.728	1.00 25.45	<b>AAA</b> A
MOTA	3249	С	LEU	Α	424	1.506	34.273	63.441	1.00 32.75	AAAA
ATOM	3250	0			424	2.299	35.188	63.247	1.00 33.59	AAAA
ATOM	3251	N			425	0.503	34.363	64.305	1.00 33.28	AAAA
ATOM	3252	CA			425	0.304	35.576	65.074	1.00 32.96	AAAA
ATOM	3253	С			425	-0.436	36.697	64.369	1.00 34.18	AAAA
ATOM	3254	0	GLY	Α	425	-0.725	37.721	64.993	1.00 34.58	AAAA
MOTA	3255	N	LEU	Α	426	-0.774	36.507	63.093	1.00 34.49	AAAA
ATOM	3256	CA	LEU	Α	426	-1.465	37.543	62.314	1.00 33.89	AAAA
ATOM	3257	CB			426	-1.389	37.188	60.830	1.00 30.87	AAAA
ATOM	3258	CG			426	0.084	37.020	60.438	1.00 31.97	AAAA
ATOM	3259				426	0.220	36.529	59.013	1.00 31.84	
										AAAA
ATOM	3260				426	0.814	38.343	60.634	1.00 29.65	AAAA
ATOM	3261	С			426	-2.906	37.796	62.754	1.00 34.97	AAAA
MOTA	3262	0	LEU	А	426	-3.858	37.610	61.986	1.00 34.20	AAAA
ATOM	3263	N	ARG	Α	427	-3.036	38.261	63.997	1.00 34.55	AAAA
ATOM	3264	CA	ARG	Α	427	-4.318	38.548	64.636	1.00 35.84	AAAA
ATOM	3265	CB	ARG	Α	427	-4.085	39.046	66.057	1.00 36.41	AAAA
ATOM	3266	CG			427	-3.678	37.995	67.043	1.00 37.26	AAAA
ATOM	3267	CD			427	-3.520	38.607			AAAA
								68.419	1.00 37.41	
ATOM	3268	NE			427	-3.190	37.575	69.393	1.00 43.51	AAAA
MOTA	3269	CZ			427	-2.860		70.658	1.00 46.53	AAAA
MOTA	3270	NH1	ARG	A	427	-2.811	39.046	71.131	1.00 48.65	AAAA
MOTA	3271	NH2	ARG	Α	427	-2.569	36.785	71.449	1.00 47.88	AAAA
ATOM	3272	С	ARG	Α	427	-5.257	39.536	63.965	1.00 36.57	AAAA
ATOM	3273	0			427	-6.468		64.098	1.00 38.92	AAAA
ATOM	3274	N			428	-4.711	40.510	63.266	1.00 37.48	AAAA
MOTA	3275	CA			428	-5.550	41.501	62.639	1.00 37.40	AAAA
ATOM	3276	CB			428					
						-4.914	42.867	62.846	1.00 43.18	AAAA
ATOM	3277	OG			428	-4.542	43.035	64.203	1.00 46.22	AAAA
ATOM	3278	C			428	-5.809	41.272	61.150	1.00 39.61	AAAA
MOTA	3279	0	SER	. A	428	-6.681	41.910	60.575	1.00 39.07	AAAA
ATOM	3280	N	LEU	Α	429	-5.062	40.358	60.536	1.00 38.24	AAAA
ATOM	3281	CA	LEU	Α	429	-5.209	40.083	59.116	1.00 36.09	AAAA
ATOM	3282	CB			429	-4.219	39.004	58.689	1.00 30.99	AAAA
ATOM	3283	CG			429	-4.113		57.181	1.00 30.43	AAAA
MOTA	3284				429	-3.472	40.021	56.528	1.00 29.94	AAAA
MOTA	3285				429	-3.313		56.898	1.00 30.87	AAAA
ATOM	3286	С			429	-6.635	39.665	58.771	1.00 38.33	AAAA
ATOM	3287	0	LEU	Α	429	-7.033	38.516	58.974	1.00 39.25	AAAA
ATOM	3288	N			430	-7.397	40.606	58.224	1.00 39.92	AAAA
ATOM	3289	CA			430	-8.784	40.357	57.882	1.00 41.82	AAAA
ATOM	3290	СВ			430	-9.659	41.413	58.555	1.00 43.00	AAAA
ATOM	3291	CG			430	-9.634			1.00 48.52	AAAA
							41.335	60.088		
MOTA	3292	CD			430	-9.634	42.728	60.734	1.00 53.32	AAAA
ATOM	3293	CE			430	-9.464	42.678	62.265	1.00 54.90	AAAA
MOTA	3294	NZ			430	-9.312	44.051	62.867	1.00 54.69	AAAA
ATOM	3295	C	LYS	A	430	-9.074	40.303	56.387	1.00 42.89	AAAA

							•		
N III OM	3296	^	LYS A	420	-10.123	39.813	55.983	1.00 44.71	AAAA
ATOM		0							
ATOM	3297	И	GLU A	431	-8.151	40.780	55.560	1.00 42.42	AAAA
ATOM	3298	CA	GLU A	431	-8.381	40.762	54.121	1.00 41.33	AAAA
ATOM	3299	CB	GLU A		-9.152	42.015	53.685	1.00 42.75	AAAA
								1.00 43.51	AAAA
ATOM	3300	CG	GLU P		-9.326	42.095	52.159		
ATOM	3301	CD	GLU A	431	-9.871	43.423	51.657	1.00 45.57	AAAA
ATOM	3302	OE1	GLU A	431	-10.408	44.221	52.456	1.00 45.24	AAAA
MOTA	3303	OE2	GLU A		-9.772	43.663	50.437	1.00 47.34	AAAA
ATOM	3304	С	GLU A	431	-7.151	40.667	53.233	1.00 40.33	AAAA
ATOM	3305	0	GLU P		-6.209	41.440	53.384	1.00 41.56	AAAA
ATOM	3306	N	ILE A	432	-7.174	39.731	52.290	1.00 38.93	AAAA
ATOM	3307	CA	ILE P	432	-6.088	39.602	51.322	1.00 37.51	AAAA
ATOM	3308	CB	ILE F	432	-5.366	38.234	51.420	1.00 36.22	AAAA
							50.460	1.00 30.35	AAAA
MOTA	3309		ILE F		-4.167	38.206			
ATOM	3310	CG1	ILE F	432	-4.893	38.011	52.857	1.00 34.78	AAAA
ATOM	3311	CD1	ILE A	432	-4.082	36.738	53.076	1.00 37.00	AAAA
	3312				-6.779	39.772	49.958	1.00 38.17	AAAA
ATOM		С	ILE F						
MOTA	3313	0	ILE A	432	-7.171	38.797	49.297	1.00 37.85	AAAA
MOTA	3314	N	SER A	433	-6.951	41.043	49.593	1.00 36.65	AAAA
	3315	CA	SER A		-7.606	41.496	48.369	1.00 36.13	AAAA
ATOM									
ATOM	3316	CB	SER A	433	-7.129	42.900	48.028	1.00 34.62	AAAA
ATOM	3317	OG	SER A	433	-7.441	43.787	49.073	1.00 35.32	AAAA
ATOM	3318	С	SER A		-7.451	40.641	47.131	1.00 36.89	AAAA
ATOM	3319	0	SER A	4 433	-8.429	40.352	46.432	1.00.38.16	AAAA
ATOM	3320	N	ASP A	434	-6.217	40.256	46.850	1.00 34.89	AAAA
ATOM	3321	CA	ASP A		-5.930	39.468	45.668	1.00 32.14	AAAA
ATOM	3322	CB	ASP A	4 434	-5.884	40.396	44.455	1.00 31.80	AAAA
ATOM	3323	CG	ASP A	434	-5.549	39.670	43.181	1.00 33.36	AAAA
ATOM	3324		ASP 7		-5.022	40.331	42.255	1.00 35.86	AAAA
ATOM	3325	OD2	ASP A	4 434	-5.819	38.450	43.101	1.00 30.92	AAAA
ATOM	3326	С	ASP A	434	-4.573	38.817	45.884	1.00 30.13	AAAA
ATOM	3327	0	ASP A		-3.877	39.155	46.840	1.00 28.28	AAAA
ATOM	3328	N	GLY A	4 4 3 5	-4.217	37.886	45.001	1.00 27.67	AAAA
MOTA	3329	CA	GLY A	435	-2.945	37.195	45.090	1.00 26.23	AAAA
ATOM	3330	C	GLY A	A 435	-3.050	35.891	45.854	1.00 26.72	AAAA
								1.00 25.12	AAAA
ATOM	3331	0		4 4 3 5	-3.981	35.692	46.636		
MOTA	3332	N	ASP A	436	-2.106	34.986	45.630	1.00 25.98	AAAA
MOTA	3333	CA	ASP A	A 436	-2.157	33.733	46.351	1.00 29.15	AAAA
					-1.656	32.579	45.476	1.00 30.89	AAAA
ATOM	3334	CB		A 436					
ATOM	3335	CG	ASP A	436	-2.63 <b>7</b>	32.239	44.351	1.00 34.45	AAAA
ATOM	3336	OD1	ASP A	436	-3.809	32.677	44.424	1.00 32.34	AAAA
ATOM	3337		ASP A		-2.240	31.534	43.397	1.00 35.89	AAAA
ATOM .	3338	С	ASP A	4 436	-1.378	33.805	47.658	1.00 29.97	AAAA
MOTA	3339	0	ASP A	436	-0.594	34.735	47.892	1.00 28.37	AAAA
TATOM	3340		VAL A	7.7 7.37	-1.628	32.825	48.516	1.00 28.67	AAAA
									AAAA
ATOM	3341	CA		4 437	-0.990	32.756	49.812	1.00 26.55	
ATOM	3342	CB	VAL A	A 437	-2.031	. 32.726	50.922	1.00 24.88	AAAA
MOTA	3343	CG1	VAL A	A 437	-1.365	32.464	52.240	1.00 27.87	AAAA
								1.00 26.18	AAAA
MOTA	3344		VAL A		-2.783				
ATOM	3345	С	VAL A	4 437	-0.188	31.487	49.894	1.00 27.29	AAAA
ATOM	3346	0	VAL A	A 437	-0.724	30.419	49.651	1.00 30.29	AAAA
ATOM	3347	N		A 438	1.102			1.00 26.85	AAAA
									AAAA
ATOM	3348	CA		A 438	1.877	30.371			
ATOM	3349	CB	ILE A	A 438	2.871	30.135	49.192	1.00 27.35	AAAA
ATOM	3350	CG2	ILE A	A 438	3.805	31.333	49.025	1.00 25.95	AAAA
	3351		ILE 2		3.641	28.836		1.00 26.86	AAAA
ATOM									
ATOM	3352	CD1	ILE 2	A 438	4.537	28.366	48.320		AAAA
ATOM	3353	С	ILE A	A 438	2.619	30.374	51.666	1.00 31.64	AAAA
ATOM	3354	Ō		A 438	3.390	31.284		1.00 32.22	AAAA
MOTA	3355	N	ILE	A 439	2.344	29.349		1.00 32.22	AAAA
MOTA	3356	CA	ILE A	A 439	2.966	29.196	53.755	1.00 32.40	AAAA
ATOM	3357	СВ		A 439	1.945	29.395		1.00 32.15	AAAA
ATOM	3358		ILE I		2.581	29.176			AAAA
ATOM	3359	CG1	ILE 2	A 439	1.350	30.799	54.688	1.00 30.50	AAAA
ATOM	3360		ILE			31.100		1.00 33.45	AAAA
									AAAA
MOTA	3361	С		A 439	3.508	27.793	53.798	1.00 33.89	
MOTA	3362	0	ILE 2	A 439	2.811	26.873	54.197	1.00 36.55	AAAA
ATOM	3363	N		A 440	4.761	27.644	53.375	1.00 35.78	AAAA
ATOM	3364	CA		A 440	5.420	26.349			AAAA
MOTA	3365	CB	SER :	A 440	5.519	25.962	51.834	1.00 39.34	AAAA
ATOM	3366	OG		A 440	6.216	26.982	51.143	1.00 41.12	AAAA
								1.00 38.94	AAAA
ATOM	3367	С		A 440					
ATOM	3368	O	SER .	A 440	7.501	27.340	53.984	1.00 39.95	AAAA
ATOM	3369	N		A 441	7.264	25.089		1.00 37.48	AAAA
	3370					24.881	54.773	1.00 35.14	AAAA
MOTA	JJ 1 U	CA	. נעט	A 441	8.598	74.00T	54.113	7.00 JJ.14	10001

ATOM	3371	С	GLY	A	441	8.885	25.428	56.161	1.00 35.38	AAAA
ATOM	3372	0	GLY			10.038	25.637	56.523	1.00 34.49	AAAA
ATOM	3373	N	ASN			7.841	25.669	56.939	1.00 35.17	AAAA
ATOM	3374	CA	ASN	Α	442	8.000	26.174	58.294	1.00 37.72	AAAA
ATOM	3375	CB	ASN	Α	442	6.924	27.238	58.602	1.00 37.77	AAAA
ATOM	3376	CG	ASN			6.881	28.361	57.565	1.00 39.67	AAAA
ATOM	3377		ASN							
						7.788	29.197	57.488	1.00 39.02	AAAA
ATOM	3378		ASN			5.823	28.376	56.755	1.00 38.53	AAAA
ATOM	3379	С	ASN	А	442	7.824	24.950	59.202	1.00 38.94	AAAA
ATOM	3380	0	ASN	Α	442	6.761	24.746	59.773	1.00 38.15	AAAA
ATOM	3381	N			443	8.881	24.150	59.317	1.00 40.62	AAAA
ATOM	3382	CA								
					443	8.895	22.920	60.103	1.00 42.67	AAAA
ATOM	3383	CB			443	10.334	22.448	60.289	1.00 45.06	AAAA
ATOM	3384	CG	LYS	Α	443	11.124	23.289	61.278	1.00 52.58	AAAA
ATOM	3385	CD	LYS	Α	443	12.613	22.930	61.254	1.00 56.29	AAAA
ATOM	3386	CÉ	LYS	Δ	443	13.415	23.836	62.177	1.00 57.90	AAAA
ATOM	3387	NZ			443					
						14.885	23.763	61.922	1.00 60.41	AAAA
ATOM	3388	С	LYS	A	443	8.206	22.896	61.466	1.00 42.88	AAAA
MOTA	3389	0	LYS	Α	443	7.732	21.847	61.890	1.00 45.25	AAAA
ATOM	3390	N	ASN	А	444	8.152	24.021	62.165	1.00 41.70	AAAA
ATOM	3391	CA	ASN			7.515	24.031			
								63.476	1.00 40.04	AAAA
ATOM	3392	CB	ASN			8.469	24.604	64.527	1.00 42.37	AAAA
MOTA	3393	CG	ASN	Α	444	9.791	23.866	64.569	1.00 45.77	AAAA
ATOM	3394	OD1	ASN	Α	444	9.835	22.650	64.779	1.00 47.22	AAAA
ATOM .	3395		ASN			10.879	24.597	64.364	1.00 47.29	AAAA
MOTA	3396	C			444	6.222	24.824	63.506	1.00 39.97	AAAA
MOTA	3397	0	ASN	Α	444	5.632	25.024	64.570	1.00 42.75	AAAA
MOTA	3398	N	LEU	Α	445	5.779	25.286	62.350	1.00 36.08	AAAA
MOTA	3399	CA	<b>LEU</b>	Α	445	4.556	26.057	62.290	1.00 35.34	AAAA
ATOM	3400	CB			445	4.513		60.962		
							26.794		1.00 33.87	AAAA
ATOM	3401	CG			445	3.384	27.773	60.718	1.00 28.34	AAAA
ATOM	3402	CD1	LEU	Α	445	3.327	28.806	61.823	1.00 27.85	AAAA
ATOM	3403	CD2	LEU	Α	445	3.637	28.414	59.375	1.00 31.22	AAAA
MOTA	3404	С			445	3.333	25.152	62.442	1.00 35.86	AAAA
ATOM	3405	0			445	3.112	24.267	61.625	1.00 35.00	AAAA
ATOM	3406	N			446	2.519	25.411	63.463	1.00 37.68	AAAA
MOTA	3407	CA	CYS	Α	446	1.340	24.588	63.739	1.00 39.94	AAAA
ATOM	3408	С	CYS	Α	446	-0.107	25.066	63.571	1.00 40.85	AAAA
ATOM	3409	0			446	-1.012	24.248	63.709	1.00 43.72	AAAA
ATOM	3410	CB			446					
						1.433	24.032	65.165	1.00 38.56	AAAA
ATOM	3411	SG			446	2.359	22.483	65.301	1.00 43.91	AAAA
ATOM	3412	N	TYR	Α	447	-0.392	26.327	63.296	1.00 40.76	AAAA
MOTA	3413	CA	TYR	Α	447	-1.823	26.652	63.241	1.00 44.93	AAAA
MOTA	3414	CB			447	-2.156	27.704	64.318	1.00 46.01	AAAA
	3415									
ATOM		CG			447	-1.606	27.350		1.00 46.95	AAAA
ATOM	3416		TYR			-0.248	27.493	65.967	1.00 47.48	AAAA
MOTA	3417	CE1	TYR	Α	447	0.278	27.099	67.190	1.00 47.21	AAAA
ATOM	3418	CD2	TYR	Α	447	-2.427	26.805	66.672	1.00 48.22	AAAA
ATOM	3419	CE2	TYR	Δ	447	-1.907		67.903		AAAA
ATOM										
	3420	CZ			447	-0.554	26.559	68.152	1.00 48.74	AAAA
ATOM	3421	OH	TYR	A	447	-0.028	26.175	69.365	1.00 51.61	AAAA
ATOM	3422	С	TYR	Α	447	-2.387	27.075	61.886	1.00 46.56	AAAA
ATOM	3423	0	TYR	Α	447	-3.606	27.157	61.710	1.00 46.01	AAAA
ATOM	3424	N			448	-1.486	27.325	60.940	1.00 46.82	AAAA
ATOM	3425	CA			448	-1.824				
							27.729		1.00 47.31	AAAA
ATOM	3426	CB			448	-0.681	27.361	58.661	1.00 44.79	AAAA
MOTA	3427	С	ALA	A	448	-3.140	27.185	59.022	1.00 48.82	AAAA
MOTA	3428	0	ALA	Α	448	-4.026	27.958	58.674	1.00 50.71	AAAA
ATOM	3429	N			449	-3.274	25.868	58.931	1.00 49.58	AAAA
ATOM	3430	CA								
					449	-4.484	25.260	58.373	1.00 50.05	AAAA
ATOM	3431	CB			449	-4.259	23.766	58.149	1.00 49.77	AAAA
ATOM	3432	CG	ASN	Α	449	-3.356	23.486	56.974	1.00 51.26	AAAA
ATOM	3433	OD1	ASN	Α	449	-3.639	23.907	55.849	1.00 53.23	AAAA
ATOM	3434				449	-2.260	22.771	57.221	1.00 50.42	AAAA
ATOM										
	3435	C			449	-5.802	25.430	59.125	1.00 50.47	AAAA
ATOM	3436	0			449	-6.848	25.059	58.610	1.00 51.49	AAAA
ATOM	3437	N	THR	Α	450	-5.774	25.978	60.331	1.00 51.52	AAAA
ATOM	3438	CA			450	-7.007	26.134	61.097	1.00 52.39	AAAA
ATOM	3439	CB			450	-6.724	26.354	62.589	1.00 52.88	AAAA
ATOM	3440				450	-6.066	27.614	62.766	1.00 54.14	AAAA
MOTA	3441	CG2	THR	Α	450	-5.835	25.245	63.129	1.00 53.40	AAAA
MOTA	3442	С	THR	A	450	-7.820	27.315	60.600	1.00 53.01	AAAA
ATOM	3443	0			450	-9.041	27.365	60.788	1.00 52.16	AAAA
ATOM	3444	N				-7.127				
					451		28.263	59.971	1.00 52.74	AAAA
MOTA	3445	CA	TTE	A	451	-7.755	29.467	59.444	1.00 51.33	AAAA

ATOM	3446	CB	ILE	A	451	-6.744	30.608	59.247	1.00 51.16	AAAA
MOTA	3447	CG2				-7.480	31.920	59.018	1.00 51.22	AAAA
MOTA	3448	CG1	ILE	A	451	-5.837	30.729	60.471	1.00 51.46	AAAA
MOTA	3449	CD1	ILE			-4.352	30.743	60.113	1.00 48.45	AAAA
ATOM	3450	C	ILE			-8.370	29.187	58.091	1.00 50.88	AAAA
MOTA	3451	0	ILE			-7.774	28.523	57.249	1.00 52.01	AAAA
ATOM	3452	N	ASN			-9.571	29.708	57.893	1.00 50.28	AAAA
ATOM	3453	CA			452	-10.289	29.559	56.640	1.00 48.28	AAAA AAAA
ATOM	3454	CB	ASN			-11.786	29.521	56.959	1.00 50.28 1.00 52.27	AAAA
ATOM	3455	CG	ASN ASN			-12.645 -12.314	29.681 29.193	55.742 54.652	1.00 55.29	AAAA
ATOM ATOM	3456 3457	ND2				-13.771	30.361	55.914	1.00 53.25	AAAA
ATOM	3458	C	ASN			-9.897	30.774	55.784	1.00 46.01	AAAA
ATOM	3459	Ö			452	-10.528	31.826		1.00 45.30	AAAA
ATOM	3460	N			453	-8.838	30.623	54.996	1.00 43.40	AAAA
ATOM	3461	CA			453	-8.328	31.719	54.178	1.00 42.38	AAAA
ATOM	3462	CB	TRP	Α	453	-7.031	31.306	53.488	1.00 41.37	AAAA
ATOM	3463	CG	TRP	Α	453	-5.991	30.839	54.442	1.00 41.57	AAAA
ATOM	3464	CD2	TRP	Α	453	-4.953	31.626	55.042	1.00 40.43	AAAA
ATOM	3465	CE2	TRP	Α	453	-4.247	30.783	55.918	1.00 40.31	AAAA
ATOM	3466		TRP			-4.555	32.963	54.925	1.00 40.95	AAAA
ATOM	3467		TRP			-5.872	29.591	54.962	1.00 41.60	AAAA
ATOM	3468		TRP			-4.830	29.547	55.851	1.00 42.67	AAAA
ATOM	3469		TRP			-3.160	31.228	56.676	1.00 39:77	AAAA
ATOM	3470		TRP			-3.472	33.407	55.682	1.00 38.55 1.00 37.51	AAAA AAAA
ATOM	3471		TRP		453 453	-2.790 -0.272	32.539 32.288	56.544 53.141	1.00 37.51	AAAA
ATOM ATOM	3472 3473	0			453	-9.272 -9.234	33.483	52.865	1.00 42.33	AAAA
ATOM	3474	И			454	-10.103	31.430	52.558	1.00 44.87	AAAA
ATOM	3475	CA			454	-11.053	31.849	51.540	1.00 45.02	AAAA
ATOM	3476	СВ			454	-11.972	30.689	51.164	1.00 48.03	AAAA
ATOM	3477	CG			454	-11.427	29.822	50.033	1.00 51.58	AAAA
ATOM	3478	CD			454	-12.354	28.655	49.709	1.00 54.35	AAAA
ATOM	3479	CE	LYS	Α	454	-12.060	28.082	48.329	1.00 56.96	AAAA
MOTA	3480	NZ	LYS	A	454	-10.652	27.609	48.185	1.00 57.80	AAAA
ATOM	3481	C	LYS	A	454	-11.875	33.017	52.032	1.00 44.09	AAAA
ATOM	3482	0			454	-12.239	33.901	51.265	1.00 43.63	AAAA
MOTA	3483	N			455	-12.149	33.016	53.327	1.00 43.70	AAAA
MOTA	3484	CA			455	-12.932	34.063	53.951	1.00 43.78	AAAA
ATOM	3485	CB			455	-13.313	33.637	55.368	1.00 45.95	AAAA AAAA
ATOM	3486	CG			455 455	-14.493 -15.778	34.394 33.994	55.951 55.246	1.00 49.78 0.01 49.34	AAAA
ATOM ATOM	3487 3488	CD			455	-16.996	34.605	55.911	0.01 50.06	AAAA
ATOM	3489	NZ	_		455	-18.258	34.130	55.279	0.01 50.24	AAAA
ATOM	3490	C			455	-12.183	35.392	53.998	1.00 43.75	AAAA
ATOM	3491	ō			455	-12.740	36.400	54.418	1.00 45.40	AAAA
ATOM	3492	N	LEU	Α	456	-10.923	35.399	53.577	1.00 43.62	AAAA
MOTA	3493	CA	LEU	Α	456	-10.131	36.628	53.577	1.00 42.08	AAAA
MOTA	3494	CB	LEU	Α	456	-8.759	36.393	54.202	1.00 41.82	AAAA
MOTA	3495	CG			456	-8.673	35.915	55.647	1.00 41.69	AAAA
MOTA	3496				456	-7.214	35.900		1.00 42.74	AAAA
ATOM	3497				456	-9.468	36.830	56.568	1.00 42.68	AAAA
ATOM	3498	C			456	-9.914	37.172	52.181	1.00 42.07 1.00 42.40	AAAA AAAA
MOTA	3499	0			456 457	-9.553 -10.110	38.337 36.317	52.024 51.177	1.00 42.40	AAAA
ATOM ATOM	3500 3501	N CA			457	-9.922	36.680	49.779	1.00 41.47	AAAA
ATOM	3501	CB			457	-9.892	35.429	48.908	1.00 41.04	AAAA
ATOM	3502	CG			457	-8.804	34.459	49.251	1.00 39.69	AAAA
ATOM	3504				457	-7.586	34.898	49.756	1.00 40.78	AAAA
ATOM	3505				457	-8.974	33.102	49.001	1.00 40.12	AAAA
ATOM	3506				457	-6.546	34.003	50.005	1.00 38.89	AAAA
ATOM	3507	CE2	PHE	Α	457	-7.948	32.199	49.244	1.00 41.59	AAAA
ATOM	3508	CZ	PHE	Α	457	-6.727	32.652	49.749	1.00 41.17	AAAA
ATOM	3509	С	PHE	A	457	-10.999	37.617	49.235	1.00 42.85	AAAA
MOTA	3510	0			457	-12.134	37.605	49.698	1.00 41.99	AAAA ·
ATOM	3511	N			458	-10.634	38.420	48.238	1.00 44.52	AAAA
ATOM	3512	CA			458	-11.580	39.348	47.644	1.00 45.53	AAAA
ATOM	3513	C			458	-11.497	39.346	46.125	1.00 47.01	AAAA AAAA
MOTA	3514	O N			458	-11.856	40.333	45.474	1.00 46.65	AAAA
ATOM	3515	N			459 450	-11.025	38.233	45.567 44.127	1.00 45.77 1.00 46.11	AAAA
ATOM	3516 3517	CA CB			459 459	-10.873 -9.486	38.075 38.600	44.127	1.00 44.48	AAAA
ATOM ATOM	3517				459 459	-9.385	40.001	43.958	1.00 42.53	AAAA
ATOM	3519					-9.281	38.384	42.187	1.00 41.79	AAAA
ATOM	3520	C			459	-11.012	36.594	43.771	1.00 48.80	AAAA
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P.M.O.V	2501	_							
ATOM	3521	0		A 459	-10.598	35.730	44.533	1.00 52.62	AAAA
ATOM	3522	И	SER A	A 460	-11.605	36.292	42.623	1.00 50.60	AAAA
ATOM	3523	CA	SER A	A 460	-11.774	34.898	42.210	1.00 51.81	AAAA
ATOM	3524	CB	SER Z	A 460	-12.620	34.802	40.930	1.00 53.51	AAAA
ATOM	3525	OG		A 460	-13.932	35.308			
							41.121	1.00 56.86	AAAA
ATOM	3526	С		A 460	-10.423	34.274	41.932	1.00 51.47	AAAA
ATOM	3527	0	SER A	A 460	-9.458	34.974	41.649	1.00 53.37	AAAA
ATOM	3528	N	GLY A	A 461	-10.352	32.955	42.013	1.00 50.95	AAAA
ATOM	3529	CA	GLY A	A 461	-9.103	32.282	41.717	1.00 50.48	AAAA
ATOM	3530	c		A 461	-8.018				
						32.331	42.770	1.00 50.11	AAAA
ATOM	3531	0		A 461	-6.972	31.701	42.592	1.00 49.77	AAAA
ATOM	3532	N	GLN A	A 462	-8.235	33.081	43.847	1.00 49.44	AAAA
MOTA	3533	CA	GLN A	A 462	-7.235	33.143	44.912	1.00 49.09	AAAA
ATOM	3534	CB	GLN A	A 462	-7.569	34.238	45.942	1.00 48.69	AAAA
ATOM	3535	CG		A 462	-7.213	35.662		1.00 48.02	
ATOM	3536						45.499		AAAA
		CD		A 462	-7.292	36.685	46.631	1.00 47.07	AAAA
MOTA	3537		GLN A		-8.365	37.194	46.960	1.00 46.57	AAAA
ATOM	3538	NE2	GLN 7	A 462	-6.149	36.979	47.235	1.00 44.90	AAAA
MOTA	3539	С	GLN A	A 462	-7.198	31.778	45.597	1.00 48.68	AAAA
MOTA	3540	0		A 462	-8.236	31.216	45.933	1.00 48.42	AAAA
ATOM	3541	N		A 463	-5.998				
						31.241	45.775	1.00 48.44	AAAA
ATOM	3542	CA		A 463	~5.831	29.951	46.422	1.00 47.72	AAAA
MOTA	3543	CB	LYS A	A 463	-5.645	28.849	45.376	1.00 48.78	AAAA
ATOM	3544	CG	LYS ?	A 463	-4.507	29.064	44.408	1.00 49.19	AAAA
ATOM	3545	CD	LYS A	A 463	-4.454	27.919	43.409	1.00 50.58	AAAA
MOTA	3546	CE		A 463	-3.559	28.241	42.211	1.00 52.58	
ATOM	3547	NZ		A 463					AAAA
					-2.137	28.476	42.596	1.00 54.20	AAAA
ATOM	3548	Ç		A 463	-4.650	29.960	47.383	1.00 46.69	AAAA
MOTA	3549	0	LYS /	A 463	-3.853	30.899	47.406	1.00 45.54	AAAA
MOTA	3550	N	THR A	A 464	-4.550	28.908	48.184	1.00 44.91	AAAA
ATOM	3551	CA	THR A	A 464	-3.470	28.801	49.147	1.00 43.83	AAAA
ATOM	3552	CB		A 464	-4.001	28.614			
ATOM	3553						50.590	1.00 43.35	AAAA
			THR A		-4.593	27.312	50.723	1.00 42.98	AAAA
ATOM	3554		THR A		-5.023	29.675	50.932	1.00 42.00	AAAA
ATOM	3555	С	THR A	A 464	-2.571	27.613	48.846	1.00 43.93	AAAA
ATOM	3556	0	THR A	A 464	-2.947	26.690	48.131	1.00 44.23	AAAA
ATOM	3557	N	TYS 7	A 465	-1.368	27.659	49.389	1.00 43.85	AAAA
ATOM	3558	CA		A 465	-0.423	26.573	49.245		
ATOM	3559							1.00 44.57	AAAA
		CB		A 465	0.658	26.910	48.225	1.00 44.79	AAAA
MOTA	3560	CG		A 465	1.372	25.686	47.682	1.00 46.31	AAAA
ATOM	3561	CD	LYS A	A 465	0.422	24.809	46.877	0.01 46.45	AAAA
ATOM	3562	CE	LYS A	A 465	1.139	23.610	46.276	0.01 46.84	AAAA
ATOM	3563	NZ	LYS 2	A 465	1.720	22.726	47.322	0.01 47.05	AAAA
ATOM	3564	C		A 465	0.153	26.516		1.00 44.75	
ATOM	3565	ŏ	_				50.645		AAAA
				A 465	1.200	27.089	50.927	1.00 45.89	· "AAAA"
ATOM	3566	N		A 466	-0.570	25.845	51.529	1.00 44.29	AAAA
ATOM	3567	CA	ILE A	٩ 466	-0.166	25.739	52.914	1.00 45.39	AAAA
ATOM	3568	CB	ILE A	A 466	-1.285	26.223	53.807	1.00 44.65	AAAA
ATOM	3569	CG2	ILE A	A 466	-0.807	26.309	55.233	1.00 45.36	AAAA
ATOM	3570		ILE A		-1.748	27.588	53.307	1.00 45.22	
ATOM	3571		ILE A						AAAA
					-2.812	28.215	54.127	1.00 46.50	AAAA
ATOM	3572	С		A 466	0.210	24.328	53.299	1.00 47.29	AAAA
ATOM	3573	0		A 466	-0.518	23.646	54.013	1.00 48.50	AAAA
ATOM	3574	N	ILE A	4 467	1.373	23.899	52.833	1.00 49.34	AAAA
ATOM	3575	CA	ILE A	467	1.846	22.559	53.116	1.00 49.19	AAAA
ATOM	3576	CB		A 467	1.717	21.692	51.853	1.00 51.13	AAAA
ATOM	3577		ILE A		0.251				
ATOM						21.496	51.506	1.00 51.46	AAAA
	3578		ILE A		2.431	22.373	50.678	1.00 50.90	AAAA
ATOM	3579		ILE A		3.940	22.312	50.739	1.00 50.04	AAAA
ATOM	3580	С	ILE A	A 467	3.295	22.493	53.607	1.00 48.40	AAAA
MOTA	3581	0	ILE A	A 467	4.030	23.484	53.619	1.00 47.26	AAAA
ATOM	3582	N		A 468	3.686	21.291	54.006	1.00 47.71	AAAA
ATOM	3583	CA		A 468	5.034	21.006	54.463		
ATOM	3584	CB						1.00 45.41	AAAA
				A 468	6.010	21.109	53.294	1.00 46.51	AAAA
ATOM	3585	OG		468	5.651	20.212	52.254	1.00 49.38	AAAA
MOTA	3586	С	SER A	468	5.543	21.848	55.605	1.00 43.11	AAAA
ATOM	3587	0	SER A	A 468	6.711	22.216	55.627	1.00 42.90	AAAA
ATOM	3588	N		A 469	4.672	22.167	56.550	1.00 41.20	AAAA
ATOM	3589	CA		A 469	5.100				
ATOM						22.928	57.715	1.00 40.54	AAAA
	3590	CB		A 469	4.064	23.994	58.090	1.00 38.22	AAAA
ATOM	3591	CG		A 469	3.833	24.996	56.970	1.00 37.70	AAAA
MOTA	3592	OD1	ASN A	A 469	4.775	25.583	56.443	1.00 38.17	AAAA
ATOM	3593	ND2	ASN A	A 469	2.581	25.190	56.598	1.00 37.18	AAAA
ATOM	3594	С		A 469	5.213	21.873	58.803	1.00 42.38	AAAA
ATOM	3595	ō	ASN A		5.903				
011	2223	-		. 403	3.303	20.869	58.632	1.00 44.03	AAAA

ATOM 3663 C GLY A 479 -1.159 21.169 71.525 1.00 52.49 AAAA ATOM 3664 O GLY A 479 -1.599 22.064 72.239 1.00 51.83 AAAA ATOM 3665 N GLN A 480 -0.661 21.406 70.326 1.00 52.32 AAAA											
NOTICE   SEPT   CA   ARG   A 470	АТОМ	3596	N	ARG	А	470	4.534	22.078	59.918	1.00 42.59	AAAA
ATOM   3599   CG   ARG   A 470							4.573	21.103	60.984	1.00 42.94	
NECON   1860   CD   ARG   A 470	ATOM	3598	CB	ARG	А	470					
NECON   NECO											
ADDITION   Section   Sec											
ARCHO 3603 NHL ARG A 470											
ARDON 3600 NH2 ARG A 470											
ATOM 3605 C ARG A 470 3,383 20.156 60.826 1.00 44.03 AAAA ATOM 3606 O ARG A 470 2.256 20.591 60.682 1.00 43.57 AAAA ATOM 3607 O GLY A 471 3,664 18.860 60.856 1.00 44.61 AAAA ATOM 3608 CA GLY A 471 1.474 18.000 61.701 1.00 44.61 AAAA ATOM 3609 C GLY A 471 1.474 18.000 61.701 1.00 46.17 AAAA ATOM 3610 O GLY A 471 1.474 18.000 61.701 1.00 46.17 AAAA ATOM 3610 O GLY A 471 1.474 18.000 61.701 1.00 46.17 AAAA ATOM 3610 C GLY A 471 1.474 18.000 61.701 1.00 46.17 AAAA ATOM 3611 C GLY A 472 0.260 17.918 61.176 1.00 48.40 AAAA ATOM 3612 CA GLU A 472 0.260 17.918 61.176 1.00 48.40 AAAA ATOM 3612 C GLU A 472 0.260 17.918 61.076 1.00 53.84 AAAA ATOM 3614 C GLU A 472 0.2165 17.702 61.166 1.00 53.84 AAAA ATOM 3615 CD GLU A 472 0.2165 17.702 61.166 1.00 53.84 AAAA ATOM 3615 CD GLU A 472 0.486 17.003 16.126 1.00 53.84 AAAA ATOM 3615 CD GLU A 472 0.486 17.005 63.168 1.00 64.02 AAAA ATOM 3615 CD GLU A 472 0.486 17.005 63.168 1.00 49.96 AAAA ATOM 3615 CD GLU A 472 0.486 17.005 63.168 1.00 49.96 AAAA ATOM 3610 CD GLU A 472 0.055 15.705 63.166 1.00 49.96 AAAA ATOM 3610 CD GLU A 472 0.055 15.705 63.166 1.00 49.96 AAAA ATOM 3620 O KU ASN A 473 0.055 15.705 63.166 1.00 49.96 AAAA ATOM 3620 O KU ASN A 473 0.055 15.705 63.166 1.00 49.96 AAAA ATOM 3620 O KU ASN A 473 0.055 15.705 63.166 1.00 49.96 AAAA ATOM 3620 O KU ASN A 473 0.045 17.505 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.166 1.00 49.96 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.105 10.00 49.66 AAAA ATOM 3620 C BANA A 473 0.055 15.105 63.105 10.00 49.60 AAAA ATOM 3620 C BANA A 473 0.056 15.105 63											
ATOM 3606 O ARG A 470											AAAA
ARDM 3608 CA GLY A 471				ARG	А	470	2.236	20.591	60.682		
ATOM 3609 C GLY A 471	MOTA	3607	N	GLY	A	471					
ATOM 3610 0 GIY A 471	MOTA	3608									
ATOM 3611 N GIU A 472 -0.280 17.918 61.176 1.00 48.40 AAAA ATOM 3612 CA GIU A 472 -0.928 18.013 62.03 1.00 50.67 AAAA ATOM 3613 CB GIU A 472 -2.165 17.702 61.166 1.00 53.84 AAAA ATOM 3614 CB GIU A 472 -3.380 17.312 61.982 1.00 59.03 AAAA ATOM 3615 CD GIU A 472 -4.459 16.700 61.126 1.00 99.03 AAAAA ATOM 3616 CE GIU A 472 -5.367 16.031 61.593 1.00 65.10 AAAA ATOM 3616 CE GIU A 472 -5.367 16.031 61.693 1.00 65.10 AAAA ATOM 3618 C GIU A 472 -0.846 17.050 63.186 1.00 49.96 AAAA ATOM 3618 C GIU A 472 -0.846 17.050 63.186 1.00 49.96 AAAA ATOM 3618 C GIU A 472 -0.846 17.050 63.186 1.00 49.96 AAAA ATOM 3618 C GIU A 472 -0.846 17.050 63.186 1.00 49.96 AAAA ATOM 3620 N ASN A 473 -0.575 15.780 62.907 1.00 48.92 AAAA ATOM 3620 N ASN A 473 -0.556 13.431 63.397 1.00 48.99 AAAA ATOM 3620 N ASN A 473 -0.556 13.431 63.397 1.00 48.99 AAAA ATOM 3620 CA ASN A 473 -0.556 13.431 63.397 1.00 47.07 AAAA ATOM 3625 CD ASN A 473 -0.929 12.596 63.248 1.00 43.02 AAAA ATOM 3626 CD ASN A 473 -0.929 12.596 63.248 1.00 43.02 AAAA ATOM 3626 C ASN A 473 -0.929 12.596 63.248 1.00 43.02 AAAA ATOM 3626 C ASN A 473 -0.929 12.596 63.248 1.00 49.66 AAAA ATOM 3627 O ASN A 473 -0.929 12.159 61.522 1.00 44.74 AAAA ATOM 3628 N SER A 474 1.607 15.711 64.748 1.00 50.30 AAAA ATOM 3620 C SER A 474 2.534 16.137 65.783 1.00 50.94 AAAA ATOM 3620 C SER A 474 2.534 16.137 65.783 1.00 50.94 AAAA ATOM 3620 C SER A 474 2.534 16.137 65.783 1.00 50.94 AAAA ATOM 3620 C SER A 474 2.534 16.137 65.783 1.00 50.94 AAAA ATOM 3620 C SER A 474 2.534 16.137 65.783 1.00 50.94 AAAA ATOM 3630 C SER A 474 2.534 16.137 65.783 1.00 50.94 AAAA ATOM 3630 C SER A 474 2.534 16.137 65.783 1.00 50.94 AAAA ATOM 3630 C SER A 474 2.534 16.00 15.71 64.66 65.291 1.00 50.50 AAAA ATOM 3630 C SER A 474 2.534 16.00 15.71 64.66 65.291 1.00 50.50 AAAA ATOM 3630 C SER A 474 2.534 16.00 16.66 65.291 1.00 50.50 AAAA ATOM 3630 C SER A 474 2.534 16.00 16.66 65.291 1.00 50.50 AAAA ATOM 3630 C SER A 474 2.534 16.00 16.66 65.291 1.00 50.50 AAAA ATOM 3660 C SER A 474 4.770 16.886 66.222 1.00 51.45 AAAA ATOM 366											
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ATOM 3627 O ASN A 473										1.00 49.66	AAAA
ATOM 3628 N SER A 474							0.094	15.049	66.264	1.00 49.64	AAAA
ATOM 3630 CB SER A 474	MOTA	3628	N	SER	Α	474	1.607	15.711	64.748		
ATOM 3631 OG SER A 474	MOTA	3629	CA	SER	Α	474					
ATOM 3632 C SER A 474 2.007 17.359 66.521 1.00 50.76 AAAA ATOM 3633 O SER A 474 2.227 17.495 67.722 1.00 51.37 AAAA ATOM 3633 O SER A 475 1.314 18.251 65.816 1.00 49.87 AAAA ATOM 3635 CA CYS A 475 0.783 19.449 66.466 1.00 48.85 AAAA ATOM 3636 C CYS A 475 -0.246 19.052 67.499 1.00 49.66 AAAA ATOM 3636 C CYS A 475 -0.312 19.631 68.583 1.00 49.50 AAAA ATOM 3636 C CYS A 475 0.130 20.394 65.454 1.00 46.50 AAAA ATOM 3638 CB CYS A 475 1.266 21.133 64.240 1.00 42.41 AAAA ATOM 3639 SG CYS A 475 1.266 21.133 64.240 1.00 42.41 AAAA ATOM 3640 N -ILYS A 476 -1.046 18.051 67.148 1.00 52.03 AAAA ATOM 3641 CA LYS A 476 -3.031 16.613 67.227 1.00 52.81 AAAA ATOM 3642 CB LYS A 476 -3.031 16.613 67.227 1.00 52.81 AAAA ATOM 3644 CD LYS A 476 -5.405 15.840 66.796 1.00 61.66 AAAA ATOM 3645 CE LYS A 476 -5.405 15.840 66.796 1.00 65.69 AAAA ATOM 3646 NZ LYS A 476 -5.847 13.598 67.932 1.00 69.54 AAAA ATOM 3646 NZ LYS A 476 -5.847 13.598 67.932 1.00 69.54 AAAA ATOM 3647 C LYS A 476 -1.487 16.818 69.210 1.00 50.45 AAAA ATOM 3648 O LYS A 476 -1.487 16.818 69.210 1.00 50.45 AAAA ATOM 3648 O LYS A 476 -1.892 17.018 70.348 1.00 47.99 AAAA ATOM 3646 NZ LYS A 476 -1.892 17.018 70.348 1.00 51.12 AAAA ATOM 3654 NZ LYS A 476 -1.892 17.018 70.348 1.00 51.12 AAAA ATOM 3654 NZ LYS A 476 -1.892 17.018 70.348 1.00 51.02 AAAA ATOM 3655 CA ALA A 477 0.827 16.172 70.975 1.00 52.53 AAAA ATOM 3655 CB ALA A 477 0.827 16.172 70.975 1.00 53.47 AAAA ATOM 3655 CB ALA A 477 0.827 16.172 70.975 1.00 53.47 AAAA ATOM 3655 CB THR A 478 1.569 17.162 70.491 1.00 53.47 AAAA ATOM 3655 CB THR A 478 1.569 17.162 70.491 1.00 53.47 AAAA ATOM 3656 CB THR A 478 1.569 17.162 70.491 1.00 53.81 AAAAA ATOM 3657 CG THR A 478 1.159 19.151 71.181 1.00 53.02 AAAA ATOM 3657 CG GLY A 479 -1.159 12.016 71.758 1.00 52.53 AAAA ATOM 3658 CG GLY A 479 -1.159 12.169 71.525 1.00 52.59 AAAA ATOM 3658 CG GLY A 479 -1.159 12.169 71.525 1.00 52.59 AAAA ATOM 3666 CA GLY A 479 -1.159 12.169 71.525 1.00 52.59 AAAA ATOM 3667 CB GLY A 479 -1.159 12.169 71.525 1.00 52.53 AAAA ATOM 3668 CG GLY A 480 -0.6											
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ATOM 3636 C CYS A 475											
ATOM 3637 O CYS A 475										1.00 49.66	AAAA
ATOM 3639 SG CYS A 475  ATOM 3640 N TLYS A 476  ATOM 3641 CA LYS A 476  ATOM 3642 CB LYS A 476  ATOM 3643 CG LYS A 476  ATOM 3644 CD LYS A 476  ATOM 3645 CE LYS A 476  ATOM 3646 NZ LYS A 476  ATOM 3646 NZ LYS A 476  ATOM 3647 C LYS A 476  ATOM 3648 O LYS A 476  ATOM 3649 N ALA A 477  ATOM 3650 CA ALA A 477  ATOM 3651 CB ALA A 477  ATOM 3655 CA THA A 478  ATOM 3655 CA THR A 478  ATOM 3655 CB THR A 478  ATOM 3656 CB THR A 478  ATOM 3658 CG2 THR A 478  ATOM 3658 CG2 THR A 478  ATOM 3650 CA GLY A 479  ATOM 3650 CA THR A 478  ATOM 3651 CB THR A 478  ATOM 3653 CG THR A 478  ATOM 3656 CB THR A 478  ATOM 3656 CG THR A 478  ATOM 3656 CG GLY A 479  ATOM 3656 CG GLY A 479  ATOM 3650 CA GLY A 479  ATOM 3656 CG GLY A 479  ATOM 3657 CG GLY A 479  ATOM 3658 CG GLY A 479  ATOM 3658 CG GLY A 479  ATOM 3650 CA GLY A 479  ATOM 3650 CA GLY A 479  ATOM 3656 CG GLY A 479  ATOM 3657 CG GLY A 479  ATOM 3658 CG GLY A 479  ATOM 3658 CG GLY A 479  ATOM 3659 C GLY A 479  ATOM 3650 CA GLY A 479  ATOM 3650 CG GLY A 479  ATOM 3660 CA GLY A 480  ATOM 3660 C			0	CYS	Α	475	-0.312	19.631	68.583		
ATOM 3640 N - LYS A 476	MOTA	3638	CB	CYS	A	475					
ATOM 3641 CA LYS A 476											
ATOM 3642 CB LYS A 476											
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ATOM 3646 NZ LYS A 476								14.309			
ATOM 3648 O LYS A 476 -1.892 17.018 70.348 1.00 47.99 AAAA ATOM 3649 N ALA A 477 -0.489 15.986 68.930 1.00 51.12 AAAA ATOM 3650 CA ALA A 477 0.204 15.229 69.963 1.00 51.29 AAAA ATOM 3651 CB ALA A 477 1.275 14.356 69.341 1.00 51.02 AAAA ATOM 3653 O ALA A 477 0.827 16.172 70.975 1.00 52.53 AAAA ATOM 3654 N THR A 478 1.569 17.162 70.491 1.00 53.47 AAAA ATOM 3655 CA THR A 478 2.200 18.132 71.376 1.00 53.81 AAAA ATOM 3656 CB THR A 478 2.842 19.510 69.489 1.00 54.79 AAAA ATOM 3658 CG2 THR A 478 2.842 19.510 69.489 1.00 58.81 AAAA ATOM 3659 C THR A 478 1.154 19.141 71.847 1.00 53.50 AAAA ATOM 3660 O THR A 478 1.472 20.154 72.459 1.00 54.64 AAAA ATOM 3661 N GLY A 479 -0.103 18.861 71.539 1.00 52.90 AAAA ATOM 3663 C GLY A 479 -1.180 19.727 71.981 1.00 53.02 AAAA ATOM 3663 C GLY A 479 -1.180 19.727 71.981 1.00 52.32 AAAA ATOM 3665 N GLN A 480 -0.661 21.406 70.326 1.00 52.32 AAAA ATOM 3665 CA GLY A 479 -1.159 22.064 72.239 1.00 52.49 AAAA ATOM 3665 N GLN A 480 -0.661 21.406 70.326 1.00 52.32 AAAA ATOM 3666 CA GLN A 480 -0.631 22.761 69.824 1.00 51.55 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 51.55 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 51.55 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.631 22.761 69.824 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.631 22.761 69.824 1.00 56.91 AAAA	MOTA		NZ	LYS	Α	476	-5.847	13.598			
ATOM 3649 N ALA A 477	ATOM	3647	С								
ATOM 3650 CA ALA A 477 0.204 15.229 69.963 1.00 51.29 AAAA ATOM 3651 CB ALA A 477 1.275 14.356 69.341 1.00 51.02 AAAA ATOM 3652 C ALA A 477 0.827 16.172 70.975 1.00 52.53 AAAA ATOM 3653 O ALA A 477 0.643 16.004 72.177 1.00 53.87 AAAA ATOM 3654 N THR A 478 1.569 17.162 70.491 1.00 53.47 AAAA ATOM 3655 CA THR A 478 2.200 18.132 71.376 1.00 53.81 AAAA ATOM 3656 CB THR A 478 3.342 18.874 70.669 1.00 54.79 AAAA ATOM 3656 CG THR A 478 2.842 19.510 69.489 1.00 58.81 AAAA ATOM 3658 CG2 THR A 478 4.444 17.908 70.276 1.00 55.30 AAAA ATOM 3658 CG2 THR A 478 1.154 19.141 71.847 1.00 53.50 AAAA ATOM 3660 O THR A 478 1.472 20.154 72.459 1.00 54.64 AAAA ATOM 3661 N GLY A 479 -0.103 18.861 71.539 1.00 52.90 AAAA ATOM 3663 C GLY A 479 -1.180 19.727 71.981 1.00 53.02 AAAA ATOM 3664 O GLY A 479 -1.159 21.169 71.525 1.00 52.49 AAAA ATOM 3665 N GLN A 480 -0.661 21.406 70.326 1.00 52.32 AAAA ATOM 3666 CA GLN A 480 -0.661 21.406 70.326 1.00 52.67 AAAA ATOM 3668 CG GLN A 480 -0.661 21.406 70.326 1.00 52.67 AAAA ATOM 3668 CG GLN A 480 -0.661 22.761 69.824 1.00 51.55 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3668 CG GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.663 23.030 70.054 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 -0.663 23.030 70.054 1.00 56.91											
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ATOM 3658 CG2 THR A 478	MOTA	3656									
ATOM 3659 C THR A 478 1.154 19.141 71.847 1.00 53.50 AAAA ATOM 3660 O THR A 478 1.472 20.154 72.459 1.00 54.64 AAAA ATOM 3661 N GLY A 479 -0.103 18.861 71.539 1.00 52.90 AAAA ATOM 3662 CA GLY A 479 -1.180 19.727 71.981 1.00 53.02 AAAA ATOM 3663 C GLY A 479 -1.159 21.169 71.525 1.00 52.49 AAAA ATOM 3664 O GLY A 479 -1.599 22.064 72.239 1.00 51.83 AAAA ATOM 3665 N GLN A 480 -0.661 21.406 70.326 1.00 52.32 AAAA ATOM 3666 CA GLN A 480 -0.631 22.761 69.824 1.00 51.55 AAAA ATOM 3667 CB GLN A 480 0.693 23.030 69.120 1.00 52.67 AAAA ATOM 3668 CG GLN A 480 1.876 23.030 70.054 1.00 54.54 AAAA ATOM 3669 CD GLN A 480 3.093 23.628 69.405 1.00 56.91 AAAA ATOM 3669 CD GLN A 480 3.093 23.628 69.405 1.00 56.91									-		
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7777										1.00 54.54	
ATOM 36/0 OEI GEN A 480 3.668 23.049 68.485 1.00 36.34 AAAA											
	ATOM	3670	OE.	r GL)	4 <i>F</i>	480	3.668	23.049	68.485	T.00 00.04	74 74

ATOM	3671	NE2	GLN A	480	3.487	24 909	60 960	1 00 57 02	2222
ATOM	3672	C	GLN A			24.808	69.869	1.00 57.83	AAAA
					-1.788	23.001	68.877	1.00 50.03	AAAA
ATOM	3673	0	GLN A		-1.647	22.892	67.662	1.00 47.84	AAAA
ATOM	3674	N	VAL A	481	-2.944	23.317	69.437	1.00 49.57	AAAA
ATOM	3675	CA	VAL A	481	-4.105	23.581	68.605	1.00 51.29	AAAA
ATOM	3676	CB	VAL A	481	-5.072	22.377	68.573	1.00 50.90	
ATOM	3677		VAL A						AAAA
					-4.349	21.148	68.044	1.00 50.66	AAAA
ATOM	3678		VAL A	481	-5.634	22.119	69.961	1.00 50.27	AAAA
ATOM	3679	С	VAL A	481	-4.846	24.800	69.120	1.00 52.33	AAAA
ATOM	3680	0	VAL A	481	-4.517	25.338	70.179	1.00 52.12	AAAA
ATOM	3681	N	CYS A		-5.848				
ATOM						25.233	68.366	1.00 53.19	AAAA
	3682	CA	CYS A		-6.626	26.394	68.750	1.00 53.98	AAAA
MOTA	3683	C	CYS A		-7.256	26.222	70.117	1.00 55.63	AAAA
ATOM	3684	0	CYS A	482	-7.637	25.124	70.511	1.00 55.98	AAAA
ATOM	3685	CB	CYS A	482	-7.701	26.675	67.703	1.00 52.65	AAAA
ATOM	3686	SG	CYS A		-7.031	27.238			
ATOM	3687	N					66.108	1.00 54.26	AAAA
			HIS A		-7.359	27.327	70.839	1.00 59.16	AAAA
ATOM	3688	CA	HIS A		-7.937	27.335	72.173	1.00 63.45	AAAA
ATOM	3689	CB	HIS A	483	-7.895	28.751	72.733	1.00 65.16	AAAA
ATOM	3690	CG	HIS A	483	-8.023	28.817	74.218	1.00 66.56	AAAA
MOTA	3691		HIS A		-8.966	29.381			
ATOM	3692		HIS A				75.007	1.00 67.48	AAAA
					-7.082	28.277	75.068	1.00 66.67	AAAA
MOTA	3693		HIS A		-7.439	28.509	76.318	1.00 67.73	AAAA
ATOM	3694	NE2	HIS A	483	-8.578	29.177	76.309	1.00 68.45	AAAA
ATOM	3695	С	HIS A	483	-9.379	26.830	72.169	1.00 65.33	AAAA
ATOM	3696	0	HIS A		-10.006	26.710	71.116	1.00 64.69	
ATOM	3697	N	ALA A						AAAA
					-9.906	26.554	73.356	1.00 67.96	AAAA
ATOM	3698	CA	ALA A		-11.267	26.052	73.488	1.00 70.13	AAAA
MOTA	3699	CB	ALA A	484	-11.511	25.593	74.912	1.00 70.69	AAAA
MOTA	3700	С	ALA A	484	-12.338	27.054	73.080	1.00 72.07	AAAA
ATOM	3701	0	ALA A		-13.415	26.656	72.646	1.00 73.28	
ATOM	3702	N	LEU A						AAAA
					-12.052	28.345	73.212	1.00 73.71	AAAA
MOTA	3703	CA	LEU A		-13.030	29.375	72.856	1.00 75.69	AAAA
ATOM	3704	CB	LEU A	485	-12.871	30.596	73.777	1.00 76.53	AAAA
ATOM	3705	CG	LEU A	485	-13.144	30.446	75.281	1.00 76.48	AAAA
MOTA	3706	CD1	LEU A	485	-12.062	29.603	75.924	1.00 76.81	
MOTA	3707		LEU A		-13.185				AAAA
ATOM	3708	C				31.815	75.930	1.00 75.97	AAAA
			LEU A		-12.906	29.830	71.402	1.00 76.77	AAAA
ATOM	3709	0	LEU A		-12.916	31.030	71.129	1.00 76.32	AAAA
MOTA	3710	N	CYS A	486	-12.824	28.888	70.464	1.00 78.44	AAAA
ATOM	3711	CA	CYS A	486	-12.639	29.262	69.062	1.00 79.80	AAAA
ATOM	3712	C	CYS A		-13.323	28.408	68.005	1.00 82.17	
ATOM	3713	0	CYS A						AAAA
ATOM	3714				-12.796	28.240	66.903	1.00 83.24	AAAA
		CB	CYS A		-11.145	29.290	68.788	1.00 78.19	AAAA
- ATOM	3715	SG	CYS" A		-10.311	30.096	70.176	1.00 75.70	AAAA
ATOM	3716	N	SER A	487	-14.503	27.886	68.320	1.00 84.00	AAAA
MOTA	3717	CA	SER A	487	-15.240	27.062	67.366	1.00 85.78	AAAA
ATOM	3718	CB	SER A		-16.669	26.819	67.874	1.00 87.85	
ATOM	3719	OG	SER A		-17.382				AAAA
						25.951		1.00 90.60	AAAA
ATOM	3720	C	SER A		-15.280	27.701	65.966	1.00 84.87	AAAA
MOTA	3721	0	SER A	487	-15.399	26.995	64.955	1.00 84.74	AAAA
MOTA	3722	N	PRO A	488	-15.188	29.044	65.890	1.00 83.13	AAAA
ATOM	3723	CD	PRO A	488	-15.246	30.070	66.946	1.00 82.48	AAAA
ATOM	3724	CA	PRO A		-15.217	29.684	64.574		
ATOM	3725	CB	PRO A		-15.154			1.00 81.50	AAAA
						31.181	64.910	1.00 82.13	AAAA
MOTA	3726	CG	PRO A		-14.542	31.216	66.290	1.00 83.03	AAAA
ATOM	3727	C	PRO A		-14.115	29.256	63.613	1.00 79.29	AAAA
ATOM	3728	0	PRO A	488	-13.672	28.105	63.616	1.00 77.71	AAAA
ATOM	3729	N	GLU A	489	-13.684	30.208	62.792	1.00 77.71	AAAA
ATOM	3730	CA	GLU A		-12.661	29.975			
MOTA							61.786	1.00 75.83	AAAA
	3731	CB	GLU A		-12.764	31.037	60.683	1.00 77.35	AAAA
MOTA	3732	CG	GLU A		-14.001	30.902	59.798	1.00 78.87	AAAA
ATOM	3733	CD	GLU A	489	-15.296	30.953	60.582	0.01 79.22	AAAA
ATOM	3734	OE1	GLU A	489	-15.549	31.976	61.251	0.01 79.62	AAAA
MOTA	3735		GLU A		-16.064	29.968	60.528	0.01 79.63	AAAA
ATOM	3736	C	GLU A						
ATOM					-11.229	29.915	62.301	1.00 73.13	AAAA
	3737	0	GLU A		-10.390	30.731	61.918	1.00 74.00	AAAA
ATOM	3738	N	GLY A		-10.959	28.945	63.169	1.00 69.33	AAAA
MOTA	3739	CA	GLY A	490	-9.617	28.754	63.691	1.00 63.89	AAAA
ATOM	3740	С	GLY A		-8.969	29.845	64.520	1.00 60.11	AAAA
ATOM	3741	ō	GLY A		-9.644				
ATOM	3742					30.668	65.145	1.00 60.50	AAAA
		N	CYS A		-7.637	29.844	64.505	1.00 55.83	AAAA
ATOM	3743	CA	CYS A		-6.835	30.788	65.279	1.00 50.20	AAAA
ATOM	3744	C	CYS A	491	-5.456	31.020	64.652	1.00 46.10	AAAA
ATOM	3745	0	CYS A		-4.998	30.243	63.823	1.00 45.10	AAAA
			••		,00	20.243	VJ. VZJ	2.00 40.10	ALVA.

ATOM	3746	CB	CYS 7	A 493	-6.642	30.222	66.675	1.00 50.92	AAAA
ATOM	3747	SG	CYS Z	A 49	-5.689	28.673	66.628	1.00 49.59	AAAA
ATOM	3748	N	TRP A			32.083	65.066	1.00 41.77	AAAA
MOTA	3749	CA	TRP A	A 492	-3.464	32.369	64.530	1.00 38.99	AAAA
ATOM	3750	CB	TRP A	A 492	-3.298	33.863	64.292	1.00 36.70	AAAA
ATOM	3751	CG	TRP A	A 492	-4.307	34.422	63.360	1.00 36.76	AAAA
									AAAA
MOTA	3752		TRP A			34.444	61.932	1.00 34.87	
ATOM	3753	CE2	TRP A	A 492	-5.373	35.122	61.462	1.00 34.02	AAAA
ATOM	3754	CE3	TRP A	4 4 9 2	-3.298	33.961	61.003	1.00 35.02	AAAA
									AAAA
ATOM	3755		TRP A			35.056	63.690	1.00 35.06	
ATOM	3756		TRP I			35.483	62.555	1.00 33.67	AAAA
ATOM	3757	$c^2$ 2	TRP 2	A 49	-5.612	35.333	60.107	1.00 33.91	AAAA
ATOM	3758		TRP 2			34.170	59.660	1.00 35.63	aaåa
MOTA	3759	CH2	TRP I	A 49	-4.683	34.855	59.222	1.00 36.22	AAAA
ATOM	3760	C	TRP I	A 49	-2.408	31.887	65.501	1.00 39.17	AAAA
ATOM	3761	0	TRP 2	49	-1.211	32.072	65.286	1.00 39.69	AAAA
	3762					31.269	66.581	1.00 40.06	AAAA
ATOM		N	GLY I						
MOTA	3763	CA	GLY A	A 49	-1.939	30.767	67.576	1.00 42.62	AAAA
ATOM	3764	С	GLY 2	A 49	-2.668	30.006	68.657	1.00 43.52	AAAA
ATOM	3765	0	GLY :			29.825	68.581	1.00 44.18	AAAA
ATOM	3766	N	PRO 2	A 49	-1.954	29.546	69.688	1.00 44.51	AAAA
ATOM	3767	CD	PRO 2	A 49	-0.491	29.639	69.856	1.00 42.34	AAAA
ATOM	3768	CA	PRO 2	49.	-2.566	28.791	70.789	1.00 44.19	AAAA
								1.00 43.24	AAAA
ATOM	3769	CB	PRO I			28.149	71.468		
ATOM	3770	CG	PRO 2	A 49	-0.300	29.203	71.299	1.00 42.64	AAAA
ATOM	3771	С	PRO I	A 49	-3.371	29.653	71.752	1.00 43.98	AAAA
						29.171	72.403	1.00 44.27	AAAA
ATOM	3772	0	PRO I						
ATOM	3773	N	GLU Z	A 49	-3.023	30.933	71.823	1.00 44.64	AAAA
MOTA	3774	CA	GLU 2	A 49	-3.673	31.882	72.725	1.00 45.02	AAAA
ATOM	3775	CB	GLU :			33.212	72.735	1.00 42.24	AAAA
ATOM	3776	CG	GLU			33.244	73.608	1.00 42.51	AAAA
ATOM	37 <b>7</b> 7	CD	GLU 2	A 49	-0.852	34.525	73.430	1.00 44.08	AAAA
ATOM	3778	OE1	GLU :	A 49	-0.182	34.970	74.390	1.00 41.87	AAAA
			GLU :			35.085	72.312	1.00 47.63	AAAA
ATOM	3779								
ATOM	3780	С	GLU :	A 49	5 -5.149	32.176	72.453	1.00 46.59	AAAA
ATOM	3781	0	GLU .	A 49	-5.650	31.988	71.348	1.00 46.06	AAAA
ATOM	3782	N	PRO :			32.637	73.488	1.00 49.10	AAAA
									AAAA
ATOM	3783	CD	PRO .			32.549	74.903	1.00 48.93	
ATOM	3784	CA	PRO .	A 49	-7.283	32.975	73.389	1.00 50.48	AAAA
ATOM	3785	CB	PRO .	A 49	-7.647	33.335	74.827	1.00 50.12	AAAA
		CG	PRO			32.414	75.615	1.00 49.73	AAAA
ATOM	3786								
ATOM	3787	С	PRO .	A 49	-7.485	34.142	72.433	1.00 51.94	AAAA
ATOM	3788	0	PRO .	A 49	-8.411	34.134	71.622	1.00 54.25	AAAA
ATOM	3789	N	ARG .	D 40	-6.614	35.144	72.542	1.00 52.50	AAAA
ATOM	3790	CA	ARG .			36.334	71.691	1.00 53.38	AAAA
ATOM	3791	CB	ARG .	A 49	-5.891	37.500	72.313	1.00 56.15	AAAA
ATOM	3792	CG	ARG .	A 49	-6.406	38.025	73.638	1.00 57.83	AAAA
ATOM	3793	CD	ARG			36.979	74.735	1.00 61.36	AAAA
MOTA	3794	NE	ARG .				74.709	1.00 63.37	AAAA
ATOM	3795	CZ	ARG .	A 49	-4.773	35.353	75.703	1.00 66.12	AAAA
MOTA	3796	NH1	ARG .	A 49	-5.513	35.260	76.806	1.00 65.74	AAAA
	3797		ARG			34.622	75.595	1.00 67.11	AAAA
MOTA									
MOTA	3798	С	ARG .			36.025	70.340	1.00 52.89	AAAA
MOTA	3799	0	ARG	A 49	-5.844	36.924	69.524	1.00 52.41	AAAA
ATOM	3800	N	ASP .	A 49	-5.702	34.757	70.126	1.00 51.94	AAAA
ATOM	3801	CA	ASP			34.309	68.874	1.00 52.16	AAAA
ATOM	3802	CB	ASP.			33.156	69.133	1.00 47.03	AAAA
ATOM	3803	CG	ASP.	A 49	-2.701	33.627	69.284	1.00 40.75	AAAA
MOTA	3804	OD1	ASP .	A 49	-1.859	32.845	69.765	1.00 36.52	AAAA
			ASP				68.914	1.00 38.87	AAAA
MOTA	3805					34.786			
ATOM	3806	С	ASP	A 49		33.818	67.937	1.00 53.93	AAAA
ATOM	3807	0	ASP	A 49	-5.932	33.545	66.766	1.00 54.12	AAAA
MOTA	3808	N	CYS			33.713	68.470	1.00 57.04	AAAA
								1.00 61.67	AAAA
MOTA	3809	CA	CYS			33.211	67.712		
ATOM	3810	С	CYS	A 49	9 -9.175	34.184	66.772	1.00 62.09	AAAA
ATOM	3811	0	CYS			35.345	67.105	1.00 63.39	AAAA
ATOM	3812		CYS			32.598	68.689	1.00 65.33	AAAA
		CB							
ATOM	3813	SG	CYS	A 49	9 -8.780	31.039	69.292	1.00 73.60	AAAA
ATOM	3814	N	VAL	A 50	9.484	33.696	65.578	1.00 61.78	AAAA
ATOM	3815	CA	VAL			34.504	64.571	1.00 62.09	AAAA
MOTA	3816	CB	VAL			33.729	63.251	1.00 63.03	AAAA
ATOM	3817	CG1	VAL	A 50	7 -10.957	34.574	62.214	1.00 64.20	AAAA
ATOM	3818		VAL			33.340	62.763	1.00 63.38	AAAA
								1.00 62.11	AAAA
MOTA	3819	С	VAL			34.884	65.041		
MOTA	3820	OT1	VAL	A 50	-12.195	34.047	65.701	1.00 61.39	AAAA

ATOM	3821	OT2	VAL	Α	500	-11.970	36.014	64.727	1.00 62.41	AAAA
ATOM	3822	CB	ALA	В	1	2.356	84.880	26.319	1.00 90.90	BBBB
ATOM	3823	С	ALA	В	1	0.031	85.787	26.110	1.00 91.58	BBBB
ATOM	3824	Ō	ALA		1	-0.298	85.022	25.200	1.00 91.94	BBBB
ATOM	3825	N	ALA		1	0.707	84.414	28.099	1.00 91.42	
										BBBB
ATOM	3826	CA	ALA		1	1.147	85.414	27.087	1.00 91.47	BBBB
ATOM	3827	N	ALA	В	2	-0.553	86.965	26.321	1.00 91.00	BBBB
ATOM	3828	CA	ALA	В	2	-1.608	87.499	25.462	1.00 89.73	BBBB
MOTA	3829	CB	ALA	В	2	-2.836	87.854	26.290	1.00 90.47	BBBB
ATOM	3830	С	ALA	В	2	-0.998	88.753	24.838	1.00 88.30	BBBB
ATOM	3831	o	ALA		2	-0.641	89.695			
ATOM	3832							25.547	1.00 89.08	BBBB
		N	GLU		3	-0.884	88.772	23.515	1.00 85.94	BBBB
ATOM	3833	CA	GLU		3	-0.252	89.900	22.836	1.00 83.78	BBBB
ATOM	3834	CB	GLU		3	0.822	89.362	21.896	1.00 83.83	BBBB
ATOM	3835	CG	GLU	В	3	0.273	88.409	20.851	1.00 83.17	BBBB
ATOM	3836	CD	GLU	В	3	1.346	87.907	19.912	1.00 84.43	BBBB
MOTA	3837	OE1	GLU	В	3	2.226	87.144	20.370	1.00 84.00	BBBB
ATOM	3838	OE2	GLU	В	3	1.315	88.284	18.718	1.00 84.38	BBBB
ATOM	3839	C	GLU		3	-1.137	90.874			
								22.055	1.00 81.60	BBBB
ATOM	3840	0	GLU		3	-0.618	91.689	21.287	1.00 82.79	BBBB
MOTA	3841	N	LYS		4	-2.451	90.816	22.240	1.00 77.32	BBBB
MOTA	3842	CA	LYS	В	4	-3.318	91.712	21.489	1.00 72.24	BBBB
ATOM	3843	CB	LYS	В	4	-3.911	90.960	20.299	1.00 72.99	BBBB
ATOM	3844	CG	LYS	В	4	-2.862	90.578	19.251	1.00 73.87	BBBB
ATOM	3845	CD	LYS		4	-3.442	89.706	18.144	1.00 75.12	BBBB
ATOM	3846	CE	LYS		4	-3.982	88.392		1.00 76.54	
								18.697		BBBB
ATOM	3847	NZ	LYS		4	-4.525	87.499	17.636	1.00 77.09	BBBB
MOTA	3848	С	LYS		4	-4.416	92.372	22.306	1.00 68.72	BBBB
ATOM	3849	0	LYS	В	4	-5.056	91.741	23.138	1.00 69.23	BBBB
ATOM	3850	N	LYS	В	5	-4.620	93.658	22.054	1.00 64.66	BBBB
ATOM	3851	CA	LYS	В	5	-5.625	94.444	22.756	1.00 61.66	BBBB
ATOM	3852	CB	LYS	В	5	-5.469	95.922	22.390	1.00 64.44	BBBB
ATOM	3853	CG	LYS		5	-6.446	96.833	23.109	1.00 67.43	BBBB
ATOM	3854	CD	LYS		5	-6.038				
							98.293	22.999	1.00 70.43	BBBB
ATOM	3855	CE	LYS		5	-6.941	99.148	23.868	1.00 71.94	BBBB
ATOM	3856	NZ	LYS		5	-7.042	98.568	25.241	1.00 73.42	BBBB
MOTA	3857	С	LYS	В	5	-7.035	93.977	22.434	1.00 57.43	BBBB
ATOM	3858	0	LYS	В	5	-7.412	93.870	21.268	1.00 59.14	BBBB
MOTA	3859	N	VAL	₿	6	-7.825	93.710	23.463	1.00 52.04	BBBB
ATOM	3860	CA	VAL	В	6	-9.183	93.238	23.232	1.00 48.54	BBBB
MOTA	3861	CB	VAL		6	-9.541	92.103	24.182	1.00 47.62	BBBB
ATOM	3862		VAL		6	-8.584	90.944	23.995	1.00 45.73	BBBB
ATOM	3863		VAL		6					
						-9.509	92.614	25.597	1.00 48.12	BBBB
ATOM	3864	C	VAL		6	-10.255	94.303	23.383	1.00 46.10	BBBB
MOTA	3865	0	VAL		<del>-6</del> <del></del>	-9:968	95.448	23.716	1.00 46.24	BBBB
ATOM	3866	N	CYS	В	7	-11.493	93.907	23.105	1.00 43.45	BBBB
ATOM	3867	CA	CYS	В	7	-12.653	94.781	23.238	1.00 41.48	BBBB
ATOM	3868	С	CYS	В	7	-13.889	93.897	23.150	1.00 39.94	BBBB
ATOM	3869	0	CYS	В	7	-13.808	92.760	22.699	1.00 38.56	BBBB
ATOM	3870	CB	CYS		7	-12.657	95.898	22.185	1.00 41.32	BBBB
ATOM	3871	SG	CYS		, 7					
						-12.948	95.421	20.459	1.00 43.73	BBBB
ATOM	3872	N	GLN		8	-15.024	94.413	23.598	1.00 40.09	BBBB
ATOM	3873	CA	GLN		8	-16.246	93.628	23.654	1.00 41.25	BBBB
ATOM	3874	CB	GLN		8	-17.209	94.267	24.651	1.00 40.11	BBBB
ATOM	3875	CG	GLN	В	8	-16.693	94.270	26.056	1.00 42.88	BBBB
ATOM	3876	CD	GLN	В	8	-16.398	92.874	26.573	1.00 42.83	BBBB
ATOM	3877	OE1	GLN	В	8	-15.395	92.657	27.259	1.00 44.92	BBBB
ATOM	3878	NE2	GLN	В	8	-17.273	91.924	26.262	1.00 41.48	BBBB
ATOM	3879	С	GLN		8	-17.022	93.290	22.395	1.00 42.13	BBBB
ATOM	3880	ō	GLN		8					
						-17.513	92.167	22.255	1.00 43.46	BBBB
ATOM	3881	N	GLY			-17.152	94.242	21.484	1.00 41.65	BBBB
ATOM	3882	CA	GLY			-17.940	93.963	20.303	1.00 42.09	BBBB
ATOM	3883	С	GLY	В	9	-19.393	94.263	20.640	1.00 40.98	BBBB
ATOM	3884	0	GLY	В	9	-19.746	94.475	21.803	1.00 40.38	BBBB
ATOM	3885	N	THR	В	10	-20.257	94.265	19.637	1.00 39.50	BBBB
ATOM	3886	CA	THR			-21.649	94.586	19.894	1.00 38.24	BBBB
ATOM	3887	CB	THR		10	-22.022	95.917	19.206	1.00 36.02	BBBB
ATOM	3888		THR							
						-21.821	95.804	17.789	1.00 33.39	BBBB
ATOM	3889		THR		10	-21.150	97.038	19.745	1.00 34.56	BBBB
ATOM	3890	С	THR			-22.638	93.514	19.476	1.00 38.14	BBBB
MOTA	3891	0	THR			-22.284	92.540	18.827	1.00 38.54	BBBB
ATOM	3892	N	SER	В	11	-23.889	93.714	19.863	1.00 40.30	BBBB
ATOM	3893	CA	SER			-24.953	92.784	19.539	1.00 42.90	BBBB
ATOM	3894	CB	SER			-25.189	91.856	20.724	1.00 42.83	BBBB
ATOM	3895	OG	SER			-24.008	91.129	21.004	1.00 46.78	BBBB
									2.00 .00	

MOTA	3896	С	SER	В	1.1	-26.223	93.555	19.202	1.00 43.13	BBBB
ATOM	3897	ō	SER		11	-27.323	93.172	19.605	1.00 42.23	BBBB
ATOM	3898	N	ASN		12	-26.052	94.645	18.456	1.00 43.57	BBBB
ATOM	3899	CA	ASN		12	-27.171	95.496	18.053	1.00 43.71	BBBB
ATOM	3900	CB	ASN		12	-26.711	96.939	17.822	1.00 42.07	BBBB
ATOM	3901	CG	ASN		12	-25.968	97.526	19.001	1.00 40.92	BBBB
ATOM	3902		ASN		12	-26.365	97.364	20.150	1.00 42.25	BBBB
ATOM	3903	ND2			12	-24.896	98.243	18.714	1.00 39.62	BBBB
ATOM	3904	C	ASN		12	-27.824	95.016	16.763	1.00 43.38	BBBB
ATOM	3905	ō	ASN		12	-28.927	95.437	16.448	1.00 43.72	BBBB
ATOM	3906	N	LYS		13	-27.139	94.144	16.025	1.00 44.04	BBBB
ATOM	3907	CA	LYS		13	-27.631	93.641	14.742	1.00 43.22	BBBB
ATOM	3908	CB	LYS		13	-28.819	92.695	14.940	1.00 43.54	BBBB
ATOM	3909	CG	LYS		13	-28.427	91.391	15.613	1.00 45.56	BBBB
ATOM	3910	CD	LYS		13	-29.413	90.266	15.363	1.00 47.22	BBBB
	3911	CE	LYS		13	-30.803	90.593	15.880	1.00 50.74	BBBB
ATOM	3912	NZ	LYS		13	-31.803	89.517	15.568	1.00 51.41	BBBB
ATOM		C	LYS		13	-28.009	94.806	13.822	1.00 43.34	BBBB
ATOM	3913				13	-27.208	95.723	13.642	1.00 43.03	BBBB
MOTA	3914	0	LYS			-27.200	94.797	13.263	1.00 41.94	BBBB
ATOM	3915	N	LEU		14		95.864	12.341	1.00 41.86	BBBB
ATOM	3916	CA	LEU		14	-29.633	95.864		1.00 40.14	BBBB
ATOM	3917	CB	LEU		14	-30.586		11.281 10.417	1.00 40.14	BBBB
MOTA	3918	CG	LEU		14	-29.957	94.207 93.663		1.00 40.50	BBBB
MOTA	3919		LEU		14	-30.970		9.413 9.715	1.00 36.18	BBBB
ATOM	3920		LEU		14	-28.737	94.771			BBBB
ATOM	3921	С	LEU		14	-30.252	97.113	12.968	1.00 41.82	BBBB
ATOM	3922	0	LEU		14	-30.853	97.929	12.269	1.00 39.90	BBBB
ATOM	3923	N	THR		15	-30.096	97.255	14.283	1.00 42.58	BBBB
ATOM	3924	CA	THR		15	-30.610		15.023	1.00 41.03 1.00 41.85	BBBB
ATOM	3925	CB	THR		15	-30.754	98.051	16.507		BBBB
MOTA	3926		THR		15	-31.888	97.187	16.675	1.00 40.77	BBBB
ATOM	3927		THR		15	-30.912	99.312	17.361	1.00 40.86 1.00 42.13	BBBB
ATOM	3928	C	THR		15	-29.647	99.563	14.857	1.00 42.13	BBBB
ATOM	3929	0	THR		15	-28.449	99.357	14.691	1.00 42.66	BBBB
MOTA	3930	N	GLN		16		100.783	14.870	1.00 42.00	BBBB
ATOM	3931	CA	GLN		16		101.993	14.720	1.00 43.23	BBBB
ATOM	3932	CB	GLN		16		102.861	13.571	1.00 45.25	BBBB
ATOM	3933	CG	GLN		16		104.114	13.277		BBBB
ATOM	3934	CD	GLN		16		104.973	12.145	1.00 47.38	
ATOM	3935		GLN		16		104.496	11.024	1.00 47.43	BBBB
ATOM	3936		GLN		16		106.252	12.434	1.00 48.11 1.00 40.64	BBB <b>B</b> BBBB
ATOM	3937	C	GLN		16		102.752	16.038	1.00 40.04	BBBB
MOTA	3938	0	GLN		16		102.875	16.614	1.00 38.94	BBBB
ATOM	3939	N	LEU		17		103.249	16.519 17.792	1.00 37.94-	BBBB
ATOM	3940	CA	LEU		17		103.968		1.00 36.82	BBBB
MOTA	3941	CB	LEU		17		103.680	18.547	1.00 36.84	BBBB
ATOM	3942	CG	LEU		17		102.201	18.730 19.311	1.00 33.71	BBBB
ATOM	3943		LEU		17		102.071	19.618	1.00 35.84	BBBB
ATOM	3944		LEU		17		101.530		1.00 38.60	BBBB
MOTA	3945	С	LEU		17		105.458	17.589 17.498	1.00 38.60	BBBB
ATOM	3946	0	LEU		17		106.191		1.00 39.18	BBBB
ATOM	3947	N	GLY		18		105.905	17.527 17.332	1.00 39.86	BBBB
MOTA	3948	CA	GLY		18		107.314	15.927	1.00 33.80	BBBB
ATOM	3949	C	GLY		18		107.794		1.00 41.02	BBBB
ATOM	3950	0	GLY		18		107.122	14.937	1.00 41.79	BBBB
ATOM	3951	N	THR		19		108.972	15.837		BBBB
ATOM	3952	CA	THR		19		109.542	14.545	1.00 42.40	
ATOM	3953	CB	THR		19		111.058	14.653	1.00 41.93	BBBB
ATOM	3954		THR		19		111.341	15.264	1.00 43.77	BBBB
ATOM	3955	CG2			19		111.669	15.489	1.00 38.52	BBBB
ATOM	3956	С	THR		19		108.979	13.980	1.00 43.76	BBBB
MOTA	3957	0	THR		19	-26.528	108.640	14.734	1.00 45.17	BBBB
ATOM	3958	N	PHE		20	-27.351	108.896	12.655	1.00 43.80	BBBB
ATOM	3959	CA	PHE		20	-26.150	108.410	12.000	1.00 44.93	BBBB
ATOM	3960	CB	PHE		20	-26.119	108.894	10.552	1.00 44.54	BBBB
ATOM	3961	CG	PHE		20		108.232	9.674	1.00 48.17	BBBB
ATOM	3962		PHE		20		108.753	8.420	1.00 49.08	BBBB
ATOM	3963		PHE		20		107.067	10.084	1.00 50.85	BBBB
MOTA	3964		PHE		20	-28.348	108.124	7.583	1.00 49.60	BBBB
ATOM	3965		PHE		20	-28.710	106.426	9.248	1.00 50.80	BBBB
ATOM	3966	CZ	PHE		20		106.958	7.998	1.00 50.22	BBBB
ATOM	3967	С	PHE		20		108.946	12.736	1.00 46.44	BBBB
ATOM	3968	0	PHE		20		108.234	12.960	1.00 45.53	BBBB
ATOM	3969	N	GLU		21		110.216		1.00 47.75	BBBB
ATOM	3970	CA	GLU	B	21	-23.916	110.888	13.819	1.00 48.05	DDDD

ATOM	3971	CB	GLU B	21	-24.316	112.344	14.052	1.00 50	0.22	BBBB
ATOM	3972	CG	GLU B	21	-23.362		14.918	1.00 50		BBBB
ATOM	3973	CD	GLU B	21	-21.962		14.357	1.00 60	3.75	BBBB
ATOM	3974	OE1	GLU B	21	-21.759	113.743	13.279	1.00 63	3.46	BBBB
ATOM	3975	OE2	GLU B	21	-21.065	112.553	14.997	1.00 63	3.81	BBBB
ATOM	3976	С	GLU B	21	-23.587		15.151	1.00 46		BBBB
ATOM	3977	0	GLU B	21	-22.411	109.978	15.487	1.00 4	4.64	BBBB
ATOM	3978	N	ASP B	22	-24.627	109.854	15.907	1.00 43	3.16	BBBB
ATOM	3979	CA	ASP B	22	-24.432	109.186	17.183	1.00 42	2.09	BBBB
ATOM	3980	CB	ASP B	22	-25.743		17.972	1.00 43		BBBB
ATOM	3981	CG	ASP B	22	-26.256	110.474	18.417	1.00 43	1.65	BBBB
ATOM	3982	OD1	ASP B	22	-25.440	111.405	18.623	1.00 3	9.38	BBBB
ATOM	3983		ASP B	22	-27.489		18.581	1.00 4		BBBB
ATOM	3984	С	ASP B	22	-23.920	107.774	16.942	1.00 43	1.75	BBBB
ATOM	3985	0	ASP B	22	-22.891	107.372	17.481	1.00 42	2.53	BBBB
MOTA	3986	N	HIS B	23	-24.664	107.031	16.126	1.00 40	0 02	BBBB
ATOM	3987	CA	HIS B	23	-24.348					
							15.767	1.00 3		BBBB
ATOM	3988	CB	HIS B	23	-25.155	105.253	14.539	1.00 3	2.17	BBBB
ATOM	3989	CG	HIS B	23	-25.082	103.800	14.204	1.00 2	9.25	BBBB
MOTA	3990	CD3	HIS B	23	-24.335		13.291	1.00 2		BBBB
ATOM	3991		HIS B	23	-25.865	102.850	14.830	1.00 2	7.89	BBBB
MOTA	3992	CE1	HIS B	23	-25.605	101.662	14.313	1.00 2	5.95	BBBB
MOTA	3993	NE2	HIS B	23	-24.683	101.806	13.377	1.00 2	4 80	BBBB
ATOM	3994	C	HIS B	23	-22.865					
							15.470	1.00 3		BBBB
ATOM	3995	0	HIS B	23	-22.209	104.578	15.963	1.00 3	6.22	BBBB
ATOM	3996	N	PHE B	24	-22.338	106.393	14.660	1.00 3	3.83	BBBB
ATOM	3997	CA	PHE B	24	-20.936	106 343	14.317	1.00 3	3 95	BBBB
									-	
ATOM	3998	CB	PHE B	24	-20.585		13.408	1.00 3		BBBB
MOTA	3999	CG	PHE B	24	-19.169	107.509	12.967	1.00 3	1.48	BBBB
MOTA	4000	CD1	PHE B	24	-18.724	106.585	12.040	1.00 3	2.42	BBBB
ATOM	4001	CD2	PHE B	24	-18.264		13.503	1.00 3	2 77	BBBB
MOTA	4002		PHE B	24	-17.395		11.660	1.00 3		BBBB
ATOM	4003	CE2	PHE B	24	-16.937	108.395	13.129	1.00 3	0.70	BBBB
ATOM	4004	CZ	PHE B	24	-16.502	107.473	12.208	1.00 3	2.62	BBBB
ATOM	4005	С	PHE B	24	-20.079		15.585	1.00 3		BBBB
MOTA	4006	0	PHE B	24	-19.222	105.544	15.793	1.00 3	7.29	BBBB
ATOM	4007	N	LEU B	25	-20.312	107.406	16.433	1.00 3	8.09	BBBB
ATOM	4008	CA	LEU B	25	-19.545	107.553	17.666	1.00 3	8.16	BBBB
MOTA	4009									
		СВ	LEU B	25	-20.116		18.542	1.00 3		BBBB
ATOM	4010	CG	LEU B	25	-20.033	110.117	18.061	1.00 4	1.57	BBBB
ATOM	4011	CD1	LEU B	25	-20.345	111.002	19.259	1.00 4	2.04	BBBB
ATOM	4012		LEU B	25	-18.663		17.489	1.00 3		BBBB
ATOM	4013	С	LEU B	25	-19.477		18.476	1.00 3		BBBB
MOTA	4014	0	LEU B	25	-18.392	105.835	18.861	1.00 4	0.64	BBBB
ATOM	4015	N	SER B	26	-20.622	105.642	18.744	1.00-3	7.60	BBBB
ATOM	4016	CA	SER B	26		104.393	19.483	1.00 3		BBBB
MOTA	4017	CB	SER B	26	-22.004		19.505	1.00 3		BBBB
ATOM	4018	OG	SER B	26	-22.804	104.368	20.502	1.00 3	8.66	BBBB
ATOM	4019	С	SER B	26	-19.661	103.446	18.787	1.00 3	6.61	BBBB
ATOM	4020	0	SER B	26	-18.759		19.397	1.00 4		BBBB
MOTA	4021	N	LEU B	27	-19.858		17.495	1.00 3		BBBB
ATOM	4022	CA	LEU B	27	-19.005	102.390	16.733	1.00 3	5.99	BBBB
ATOM	4023	CB	LEU B	27	-19.335	102.514	15.249	1.00 3	7.08	BBBB
MOTA	4024	CG	LEU B	27	-18.673		14.331	1.00 3		BBBB
ATOM										
	4025		LEU B	27	-19.318		14.546	1.00 3		BBBB
MOTA	4026	CD2	LEU B	27	-18.826	101.951	12.893	1.00 3	8.73	BBBB
ATOM	4027	С	LEU B	27	-17.552	102.780	16.965	1.00 3	5.66	BBBB
ATOM	4028	0	LEU B	27	-16.724		17.338	1.00 3		BBBB
ATOM	4029	N	GLN B	28	-17.257		16.737	1.00 3		BBBB
ATOM	4030	CA	GLN B	28	-15.903	104.562	16.896	1.00 3	6.95	BBBB
ATOM	4031	CB	GLN B	28	-15.856	106.022	16.490	1.00 3	4.36	BBBB
MOTA	4032	CG	GLN B	28	-14.566		16.816	1.00 3		BBBB
MOTA	4033	CD	GLN B	28	-14.584		16.322	1.00 3		BBBB
MOTA	4034	OE1	GLN B	28	-13.968	108.493	15.306	1.00 2	9.80	BBBB
ATOM	4035	NE2	GLN B	28	-15.309	109.026	17.031	1.00 2	7.20	BBBB
ATOM	4036	С	GLN B	28	-15.377		18.306	1.00 3		BBBB
ATOM	4037	0	GLN B	28	-14.186		18.505	1.00 3		BBBB
MOTA	4038	N	ARG B	29	-16.271	104.480	19.280	1.00 3	7.29	BBBB
ATOM	4039	CA	ARG B	29	-15.882		20.672	1.00 3		BBBB
ATOM	4040	CB	ARG B	29	-16.972					BBBB
							21.555	1.00 3		
MOTA	4041	CG	ARG B	29	-16.580	105.142	23.014	1.00 4	3.54	BBBB
ATOM	4042	CD	ARG B	29	-17.592	105.977	23.766	1.00 4	6.43	BBBB
ATOM	4043	NE	ARG B	29	-18.958		23.464	1.00 5		BBBB
		CZ								
ATOM	4044		ARG B	29	-19.890		22.963	1.00 5		BBBB
ATOM	4045	NH1	ARG B	29	-19.591	107.642	22.716	1.00 5	2.51	BBBB

ATOM	4046	NH2	ARG	В	29	-21.112	105.901	22.695	1.00 52.94	BBBB
ATOM	4047	С	ARG	В	29	-15.633		21.085	1.00 39.54	BBBB
ATOM	4048	0	ARG		29	-14.671		21.788	1.00 40.79 1.00 39.69	BBBB BBBB
ATOM ATOM	4049 4050	N CA		B B	30 30	-16.514 -16.414		20.649 20.986	1.00 39.09	BBBB
ATOM	4051	CB	MET		30	-17.738	99.957	20.645	1.00 37.04	BBBB
ATOM	4052	CG		В	30	-18.961		21.480	1.00 38.69	BBBB
ATOM	4053	SD		В	30	-19.041	99.845	23.234	1.00 41.58	BBBB
ATOM	4054	CE		В	30	-20.471		23.926	1.00 23.68	BBBB
ATOM	4055	С		В	30	-15.239	99.930	20.332	1.00 41.38	BBBB
ATOM	4056	0		В	30 31	-14.800 -14.696	98.898	20.845 19.237	1.00 43.31	BBBB BBBB
ATOM ATOM	4057 4058	N CA		B B	31	-13.619	99.744	18.556	1.00 42.44	BBBB
ATOM	4059	CB	PHE		31	-14.099	99.283	17.182	1.00 39.20	BBBB
ATOM	4060	CG		В	31	-15.237	98.316	17.230	1.00 38.33	BBBB
ATOM	4061	CD1	PHE	В	31	-15.065	97.042	17.762	1.00 39.32	BBBB
ATOM	4062		_	В	31	-16.488	98.675	16.749	1.00 37.53	BBBB
ATOM	4063		PHE		31	-16.135	96.134	17.812	1.00 38.49	BBBB BBBB
ATOM	4064	CE2	PHE		31 31	-17.559 -17.384	97.784 96.511	16.793 17.323	1.00 37.20 1.00 37.73	BBBB
ATOM ATOM	4065 4066	C	PHE		31		100.472	18.370	1.00 46.06	BBBB
ATOM	4067	ŏ	PHE		31	-11.331	99.862	17.932	1.00 48.39	BBBB
ATOM	4068	N	ASN		32	-12.261	101.753	18.717	1.00 49.05	BBBB
ATOM	4069	CA	ASN	В	32		102.598	18.538	1.00 53.10	BBBB
ATOM	4070	CB	ASN		32		103.703	19.591	1.00 58.64	BBBB
ATOM	4071	CG	ASN		32		104.902	19.135	1.00 65.70 1.00 64.39	BBBB BBBB
ATOM	4072 4073		ASN ASN		32 32		104.991	17.962 20.040	1.00 74.16	BBBB
MOTA MOTA	4074	C	ASN		32		101.983	18.443	1.00 54.12	BBBB
ATOM	4075	ŏ	ASN		32		102.100	17.404	1.00 55.49	BBBB
ATOM	4076	N	ASN		33	-9.206	101.342	19.501	1.00 52.60	BBBB
MOTA	4077	CA	ASN		33		100.775	19.435	1.00 51.90	BBBB
ATOM	4078	CB	ASN		33		101.348	20.562	1.00 52.79	BBBB
ATOM	4079	CG	ASN		33		102.827	20.402 19.471	1.00 53.95 1.00 54.94	BBBB BBBB
ATOM ATOM	4080 4081		ASN ASN		33 33		103.259	21.296	1.00 55.46	BBBB
ATOM	4081	C	ASN		33	-7.897	99.273	19.518	1.00 50.72	BBBB
ATOM	4083	ō	ASN		33	-6.905	98.629	19.843	1.00 51.51	BBBB
ATOM	4084	N	CYS	В	34	-9.049	98.720	19.184	1.00 48.69	BBBB
MOTA	4085	CA	CYS		34	-9.263	97.294	19.258	1.00 45.55	BBBB
ATOM	4086	С	CYS		34	-8.500	96.410	18.275	1.00 45.94 1.00 45.61	BBBB BBBB
ATOM ATOM	4087 4088	O CB	CYS		34 34	-8.314 -10.747	96.752 97.018	17.101 19.135	1.00 43.01	BBBB
ATOM	4089	SG	CYS		34	-11.101	95.338	19.650	1.00 40.13	BBBB
ATOM	4090	N	GLU		35	-8.074	95.252	18.774	1.00 45.35	BBBB
ATOM	4091	CA	GLU	В	35	-7.337	94.281	17.981	1.00 44.66	BBBB
MOTA	4092	CB	GLU		35	-5.940	94.087	18.544	1.00 47.83	BBBB
ATOM	4093	CG	GLU		35	-5.117 -3.655	95.338 95.034	18.513 18.578	1.00 52.49 1.00 56.31	BBBB BBBB
ATOM ATOM	4094 4095	CD OF 1	GLU GLU		35 35	-3.835		19.610	1.00 58.59	BBBB
ATOM	4096		GLU		35	-2.950		17.588	1.00 59.17	BBBB
ATOM	4097	C	GLU		35	-8.057		17.973	1.00 43.07	BBBB
ATOM	4098	0	GLU	В	35	-8.018		16.977	1.00 42.40	BBBB
ATOM	4099	N	VAL		36	-8.700		19.091	1.00 40.14	BBBB
ATOM	4100	CA	VAL		36	-9.455		19.180	1.00 39.73 1.00 39.54	BBBB
ATOM	4101 4102	CB	VAL VAL		36 36	-8.748 -9.582		20.072	1.00 39.54	BBBB
ATOM ATOM	4102		VAL		36	-7.405		19.494	1.00 38.89	BBBB
ATOM	4104	c	VAL		36	-10.852		19.729	1.00 38.88	BBBB
ATOM	4105	0	VAL	В	36	-11.031		20.872	1.00 37.66	BBBB
ATOM	4106	N	VAL		37	-11.849		18.896	1.00 38.66	BBBB
ATOM	4107	CA	VAL		37	-13.228		19.301	1.00 37.75 1.00 35.91	BBBB BBBB
ATOM	4108	CB	VAL		37 37	-14.123 -15.531		18.077 18.529	1.00 35.91	BBBB
ATOM ATOM	4109 4110		VAL		37	-13.545		17.317	1.00 32.75	BBBB
ATOM	4111	C	VAL		37	-13.694		19.946	1.00 37.33	BBBB
ATOM	4112	ō	VAL		37	-13.754		19.291	1.00 39.25	BBBB
ATOM	4113	N	LEU		38	-14.012		21.230	1.00 37.26	BBBB
ATOM	4114	CA	LEU		38	-14.463		21.920	1.00 39.55	BBBB
ATOM	4115	CB	LEU		38	-14.506		23.429	1.00 40.70	BBBB BBBB
ATOM	4116	CG CD1	LEU		38 38	-13.128 -13.298		24.063 25.562	1.00 43.38 1.00 43.27	BBBB
ATOM ATOM	4117 4118		LEU		38	-12.191		23.717	1.00 39.35	BBBB
ATOM	4119	C	LEU		38	-15.829		21.436	1.00 39.47	BBBB
ATOM	4120	o	LEU		38	-16.181		21.506	1.00 40.38	- BBBB

ATOM	4121	N	GLY	В	39	-16.601	89.707	20.951	1.00	38.39	BBBB
ATOM	4122	CA	GLY	B	39	-17.928	89.406	20.453		35.96	BBBB
ATOM											
	4123	С	GLY		39	-18.049	89.627	18.958	1.00	36.48	BBBB
ATOM	4124	0	GLY	В	39	-17.191	89.205	18.173	1.00	34.99	BBBB
ATOM	4125	N	ASN	R	40	-19.110	90.328	18.569		35.01	BBBB
ATOM	4126	CA	ASN		40	-19.394	90.596	17.170	1.00	31.52	BBBB
ATOM	4127	CB	ASN	В	40	-20.884	90.443	16.954	1.00	31.44	BBBB
ATOM	4128	CG	ASN	R	40	-21.393	89.147	17.492		32.50	BBBB
ATOM											
	4129		ASN		40	-20.853	88.090	17.168	1.00	32.91	BBBB
MOTA	4130	ND2	ASN	В	40	-22.435	89.205	18.319	1.00	30.17	BBBB
ATOM	4131	С	ASN	R	40	-18.942	91.957	16.673		30.43	BBBB
ATOM	4132	0	ASN		40	-18.989	92.946	17.398	1.00	28.27	BBBB
ATOM	4133	N	$\text{TE}\Omega$	В	41	-18.507	91.994	15.420	1.00	30.26	BBBB
ATOM	4134	CA	LEU	R	41	-18.060	93.227	14.795	1 00	30.00	BBBB
ATOM	4135		LEU								
		CB			41	-16.808	92.968	13.966		28.81	BBBB
ATOM	4136	CG	LEU	В	41	-16.369	94.210	13.190	1.00	31.13	BBBB
ATOM	4137	CD1	LEU	В	41	-16.085	95.330	14.183	1.00	32.32	BBBB
ATOM	4138		LEU		41	-15.146	93.907				
								12.343		30.82	BBBB
MOTA	4139	C	LEU	В	41	-19.193	93.721	13.898	1.00	30.70	BBBB
MOTA	4140	0	LEU	В	41	-19.394	93.202	12.804	1.00	30.84	BBBB
ATOM	4141	N	GLU	D	42	-19.922	94.731				
								14.361		31.77	BBBB
ATOM	4142	CA	GLU	В	42	-21.063	95.266	13.618	1.00	30.97	BBBB
ATOM	4143	CB	GLU	₿	42	-22.310	95.207	14.500	1.00	29.36	BBBB
MOTA	4144	CG	GLU	Ð	42	-22.673	93.779	14.893		27.91	
											BBBB
ATOM	4145	CD	GLU	В	42	-23.838	93.700	15.865	1.00	30.15	BBBB
ATOM	4146	OE1	GLU	В	42	-24.600	92.700	15.803	1.00	30.47	BBBB
ATOM	4147	OF?	GLU	D	42	-23.988					
							94.624	16.700		29.21	BBBB
ATOM	4148	С	GLU	В	42	-20.871	96.674	13.093	1.00	31.68	BBBB
ATOM	4149	0	GLU	В	42	-21.077	97.640	13.813	1.00	34.15	BBBB
ATOM	4150	N	ILE		43	-20.462					
							96.783	11.832		31.88	BBBB
ATOM	4151	CA	ILE	В	43	-20.261	98.076	11.189	1.00	31.70	BBBB
ATOM	4152	CB	ILE	В	43	-19.049	98.034	10.269	1.00	30.88	BBBB
ATOM	4153		ILE	В	43						
						-18.858	99.379	9.592		26.49	BBBB
MOTA	4154	CG1	ILE	В	43	<b>-1</b> 7.816	97.654	11.091	1.00	28.46	BBBB
ATOM	4155	CD1	ILE	В	43	-16.961	96.622	10.443	1.00	26.17	BBBB
ATOM	4156	С	ILE		43	-21.518					
							98.354	10.363		34.35	BBBB
ATOM	4157	0	ILE		43	-21.696	97.782	9.291	1.00	34.05	BBBB
MOTA	4158	N	THR	В	44	-22.396	99.214	10.881	1.00	34.36	BBBB
ATOM	4159	CA	THR		44	-23.646	99.527	10.201		35.26	BBBB
ATOM	4160	CB	THR		44	-24.827	98.883	10.905	1.00	33.22	BBBB
ATOM	4161	OG1	THR	В	44	-24.979	99.487	12.187	1.00	28.44	BBBB
ATOM	4162	CG2	THR	В	44	-24.617	97.396	11.055		32.34	BBBB
ATOM	4163	С	THR		44	-23.969	101.012	10.108	1.00	36.70	BBBB
MOTA	4164	0	THR	В	44	-23.510	101.816	10.921	1.00	38.26	BBBB
ATOM	4165	N	TYR	R	45	-24.785	101.352	9.112		35.22	BBBB
ATOM			TYR								
	4166	CA			45		102.722	8.868		33.77	BBBB
ATOM	4167	CB	TYR	В	45	-26.257	103.133	9.924	1.00	29.72	BBBB
ATOM	4168	CG	TYR	В	45	-27.420	102.192	10.041	1.00	31.55	BBBB
ATOM	4169	CD1	TYR		45						
						-27.420		10.971		31.63	BBBB
MOTA	4170	CEL	TYR	В	45	-28.513	100.312	11.091	1.00	34.47	BBBB
ATOM	4171	CD2	TYR	В	45	-28.540	102.337	9.225	1.00	33.89	BBBB
ATOM	4172		TYR		45		101.487	9.334			
										30.77	BBBB
MOTA	4173	CZ	TYR	В	45	-29.621	100.481	10.266	1.00	32.23	BBBB
MOTA	4174	OH	TYR	В	45	-30.708	99.646	10.386	1.00	31.30	BBBB
ATOM	4175	С	TYR		45		103.803	8.797		33.02	BBBB
ATOM	4176		TYR								
		0			45		104.959	9.101		33.59	BBBB
ATOM	4177	И	VAL	В	46	-22.959	103.444	8.419	1.00	32.03	BBBB
ATOM	4178	CA	VAL	В	46	-21.906	104.437	8.337	1.00	33.71	BBBB
ATOM	4179	CB	VAL		46			8.407			
							103.785			32.27	BBBB
MOTA	4180	CG1	VAL	В	46	-19.444	104.842	8.432	1.00	28.84	BBBB
MOTA	4181	CG2	VAL	В	46	-20,440	102.921	9.645	1.00	31.29	BBBB
ATOM	4182	С	VAL								
					46		105.146	7.017		36.89	BBBB
ATOM	4183	0	VAL		46		104.509	5.977	1.00	37.60	BBBB
ATOM	4184	N	GLN	В	47	-22.092	106.470	7.067	1.00	39.72	BBBB
ATOM	4185	CA	GLN		47		107.286			41.00	
								5.893			BBBB
MOTA	4186	CB	GLN		47	-23.138	108.514	6.308	1.00	40.83	BBBB
MOTA	4187	CG	GLN	В	47	-24.389	108.165	7.073	1.00	41.20	BBBB
ATOM	4188	CD	GLN		47		107.416				
								6.222		45.18	BBBB
ATOM	4189		GLN		47	-25.753	107.873	5.140	1.00	48.86	BBBB
ATOM	4190	NE2	GLN	В	47	-25.828	106.260	6.703	1.00	46.06	BBBB
ATOM	4191	С	GLN		47		107.704			43.91	BBBB
								5.089			
ATOM	4192	0	GLN		47		107.578	5.528	1.00	45.16	BBBB
MOTA	4193	N	ARG	В	48	-21.413	108.217	3.897	1.00	45.65	BBBB
MOTA	4194	CA	ARG		48		108.633				
								2.991		45.80	BBBB
ATOM	4195	CB	ARG	В	48	-20.978	109.219	1.717	1.00	47.02	BBBB

ATOM	4196	CG	ARG E	3 48	-19.965	109.535	0.624	1.00 47.26	BBBB
ATOM	4197	CD	ARG E			110.117	-0.605	0.01 48.70	BBBB
ATOM	4198	NE	ARG E			110.436	-1.664	0.01 49.83	BBBB
ATOM	4199	CZ	ARG E			110.963	-2.838	0.01 50.50	BBBB
ATOM	4200		ARG E			111.235	-3.109	0.01 51.03	BBBB
ATOM	4201		ARG E			111.221	-3.742	0.01 51.06	BBBB
ATOM	4202	С	ARG E	48	-19.420	109.632	3.615	1.00 45.99	BBBB
ATOM	4203	0	ARG E	48	∸19.839	110.557	4.308	1.00 46.84	BBBB
ATOM	4204	N	ASN E	49	-18.137	109.418	3.363	1.00 46.83	BBBB
ATOM	4205	CA	ASN E			110.283	3.844	1.00 46.58	BBBB
ATOM	4206	СВ	ASN E			111.729	3.489	1.00 49.76	BBBB
ATOM	4207	CG	ASN E			112.033	2.015	1.00 52.89	BBBB
ATOM	4208		ASN E			112.947	1.453	1.00 54.45	BBBB
ATOM	4209		ASN E			111.277	1.385	1.00 51.55	BBBB
ATOM	4210	С	ASN E	3 49	-16.720	110.161	5.311	1.00 45.75	BBBB
ATOM	4211	0	ASN E	3 49	-15.818	110.849	5.784	1.00 47.21	BBBB
MOTA	4212	N	TYR E	50	-17.412	109.301	6.042	1.00 43.58	BBBB
ATOM	4213	CA	TYR E	3 50		109.105	7.437	1.00 43.15	BBBB
ATOM	4214	СВ	TYR E			108.386	8.165	1.00 43.96	BBBB
ATOM	4215	CG	TYR E			109.343	8.790	1.00 44.81	BBBB
			TYR E			110.109		1.00 44.51	BBBB
ATOM	4216						7.999		
ATOM	4217		TYR E			111.063	8.567	1.00 42.26	BBBB
ATOM	4218		TYR E			109.553	10.169	1.00 43.79	BBBB
ATOM	4219	CE2	TYR E	3 50	-20.023	110.507	10.748	1.00 44.03	BBBB
ATOM	4220	CZ	TYR E	50	-20.868	111.257	9.941	1.00 42.93	BBBB
ATOM	4221	OH	TYR E	3 50	-21.682	112.200	10.517	1.00 41.71	BBBB
ATOM	4222	С	TYR E	3 50	-15.757	108.291	7.500	1.00 42.97	BBBB
ATOM	4223	ŏ	TYR E			107.329	6.763	1.00 44.98	BBBB
ATOM	4224	N	ASP E			108.690	8.362	1.00 42.65	BBBB
ATOM	4225	CA	ASP E			108.006	8.495	1.00 42.46	BBBB
MOTA	4226	CB	ASP E			108.952	9.104	1.00 43.09	BBBB
ATOM	4227	CG	ASP E	3 51	-11.086	108.381	9.061	1.00 46.50	BBBB
ATOM	4228	OD1	ASP E	3 51	-10.829	107.472	8.232	1.00 46.26	BBBB
ATOM	4229	OD2	ASP E	3 51	-10.223	108.860	9.839	1.00 44.69	BBBB
ATOM	4230	С	ASP E	3 51	-13.659	106.748	9.348	1.00 42.84	BBBB
ATOM	4231	0	ASP E			106.806	10.509	1.00 43.96	BBBB
ATOM	4232	N	LEU E			105.609	8.757	1.00 42.12	BBBB
ATOM	4233	CA	LEU E			104.324	9.441	1.00 41.04	BBBB
								1.00 36.91	BBBB
ATOM	4234	CB	LEU E			103.354	8.660		
ATOM	4235	CG	LEU E			103.541	8.659	1.00 33.19	BBBB
ATOM	4236		LEU E			102.434	7.845	1.00 30.46	BBBB
ATOM	4237		LEU E			103.493	10.091	1.00 32.74	BBBB
MOTA	4238	С	LEU E	3 52	-11.998	103.726	9.537	1.00 42.49	BBBB
MOTA	4239	0	LEU E	3 52	-11.851	102.532	9.769	1.00 42.78	BBBB
ATOM	4240	N	SER E	3 53	-10.986	104.565	9.356	1.00 44.21	BBBB
ATOM	4241	CA	SER E	3 53	-9.599	104.124	9.383	1.00 45.78	BBBB
ATOM	4242	CB	SER E			105.319	9.223	1.00 46.64	BBBB
ATOM	4243	OG	SER E			106.101	10.405	1.00 51.81	BBBB
						103.363	10.643	1.00 45.91	BBBB
ATOM	4244	C	SER E						
MOTA	4245	0	SER E			102.603	10.653	1.00 48.01	BBBB
MOTA	4246	N	PHE E			103.562	11.705	1.00 45.83	BBBB
ATOM	4247	CA	PHE E	3 54	-9.742	102.883	12.966	1.00 44.20	BBBB
ATOM	4248	CB	PHE E	3 54	-10.517	103.562	14.098	1.00 41.32	BBBB
ATOM	4249	CG	PHE E	3 54	-12.011	103.455	13.968	1.00 37.89	BBBB
MOTA	4250	CD1	PHE E	3 54	-12,661	102.241	14.186	1.00 36.47	BBBB
ATOM	4251		PHE E			104.576	13.650	1.00 36.41	BBBB
ATOM	4252		PHE E			102.140	14.092	1.00 34.47	BBBB
ATOM	4253					104.493	13.552	1.00 35.84	BBBB
			PHE E						
MOTA	4254	CZ	PHE E			103.269	13.774	1.00 37.14	BBBB
MOTA	4255	С	PHE E			101.404	12.922	1.00 45.31	BBBB
MOTA	4256	0	PHE E	3 54	-10.112	100.730	13.950	1.00 48.82	BBBB
ATOM	4257	N	LEU E	3 55	-10.402	100.889	11.741	1.00 45.41	BBBB
ATOM	4258	CA	LEU E	3 55	-10.749	99.482	11.637	1.00 44.90	BBBB
MOTA	4259	CB	LEU E	3 55	-11.943	99.284	10.690	1.00 40.96	BBBB
MOTA	4260	CG	LEU E		-13.287		11.266	1.00 38.09	BBBB
ATOM	4261		LEU E		-14.404		10.327	1.00 35.50	BBBB
								1.00 35.49	BBBB
ATOM	4262		LEU E		-13.541		12.594		
ATOM	4263	С	LEU E		-9.539		11.169	1.00 45.71	BBBB
MOTA	4264	0	LEU E		-9.544		11.196	1.00 46.98	BBBB
MOTA	4265	N	LYS E		-8.496		10.763	1.00 44.56	BBBB
ATOM	4266	CA	LYS E	3 56	-7.267	98.784	10.300	1.00 43.83	BBBB
ATOM	4267	CB	LYS F	3 56	-6.300	99.851	9.782	1.00 45.19	BBBB
MOTA	4268	CG	LYS E			100.603	8.565	1.00 47.88	BBBB
ATOM	4269	CD	LYS E			101.679	8.065	1.00 47.63	BBBB
ATOM	4270	CE	LYS E			102.509	6.972	1.00 50.64	BBBB
	10	-			0.001	104.000	3.5.2		

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ATOM	4271	NZ	LYS B	56	-5.739	103.655	6.440	1.00 51.10	BBBB
MOTA	4272	C	LYS B	56	-6.590	97.975	11.409	1.00 43.65	BBBB
ATOM	4273	0	LYS B		-5.863	97.018	11.134	1.00 43.13	BBBB
ATOM ATOM	4274 4275	N CA	THR B	57 57	-6.838	98.353	12.662	1.00 42.76	BBBB
ATOM	4276	CB	THR B	57	-6.224 -6.194	97.662 98.545	13.794 15.054	1.00 42.17 1.00 42.54	BBBB
ATOM	4277	OG1	THR B	57	-7.532	98.879	15.441	1.00 42.34	BBBB BBBB
ATOM	4278	CG2	THR B	57	-5.408	99.805	14.798	1.00 41.10	BBBB
ATOM	4279	С	THR B	57	-6.874	96.340	14.177	1.00 41.12	BBBB
ATOM	4280	0	THR B	57	-6.262	95.547	14.881	1.00 42.45	BBBB
ATOM	4281	N	ILE B		-8.098	96.097	13.719	1.00 39.31	BBBB
ATOM	4282	CA	ILE B		-8.787	94.857	14.042	1.00 37.76	BBBB
ATOM ATOM	4283 4284	CB CG2	ILE B		-10.272	94.925	13.620	1.00 37.36	BBBB
ATOM	4285	CG1	ILE B	58 58	-10.922 -10.993	93.547 95.968	13.747 14.484	1.00 34.45 1.00 35.68	BBBB
ATOM	4286		ILE B		-12.502	95.926	14.419	1.00 33.00	BBBB BBBB
ATOM	4287	C	ILE B		-8.110	93.658	13.388	1.00 38.56	BBBB
ATOM	4288	0	ILE B	58	-7.849	93.658	12.192	1.00 38.92	BBBB
MOTA	4289	N	GLN B	59	-7.823	92.627	14.179	1.00 40.51	BBBB
MOTA	4290	CA	GLN B		-7.149	91.448	13.647	1.00 40.04	BBBB
ATOM	4291	CB	GLN B		-5.812	91.279	14.359	1.00 40.96	BBBB
ATOM ATOM	4292 4293	CG	GLN B		-4.851	92.409	14.044	1.00 42.93	BBBB
ATOM	4293	OE1		59 59	-3.651 -3.155	92.433 91.378	14.962	1.00 46.66	BBBB
ATOM	4295	NE2		59	-3.159	93.639	15.390 15.262	1.00 47.12 1.00 45.18	BBBB BBBB
ATOM	4296	C	GLN B		-7.961	90.161	13.704	1.00 39.00	BBBB
ATOM	4297	0	GLN B		-7.810	89.285	12.849	1.00 37.07	BBBB
ATOM	4298	N	GLU B		-8.816	90.029	14.705	1.00 38.04	BBBB
ATOM	4299	CA	GLU B	60	-9.640	88.836	14.772	1.00 40.97	BBBB
ATOM	4300	CB	GLU B	60	-8.890	87.684	15.462	1.00 44.97	BBBB
ATOM	4301	CG	GLU B		-8.581	87.848	16.936	1.00 49.29	BBBB
ATOM	4302	CD	GLU B		-7.879	86.616	17.501	1.00 51.60	BBBB
MOTA	4303	OE1			-6.680	86.426	17.205	1.00 50.93	. BBBB
ATOM ATOM	4304 4305	OE2 C	GLU B		-8.536	85.834	18.226	1.00 51.08	BBBB
ATOM	4306	0	GLU B		-10.965 -11.076	89.116 90.067	15.450 16.219	1.00 39.39 1.00 42.04	BBBB BBBB
ATOM	4307	N	VAL B		-11.967	88.296	15.150	1.00 42.04	BBBB
ATOM	4308	CA	VAL B		-13.300	88.475	15.707	1.00 36.21	BBBB
ATOM	4309	CB	VAL B	61	-14.246	89.096	14.646	1.00 35.48	BBBB
MOTA	4310	CG1	VAL B	61	-15.660	89.227	15.189	1.00 34.19	BBBB
ATOM	4311		VAL B		-13.712	90.445	14.216	1.00 34.29	BBBB
ATOM	4312	С	VAL B		-13.837	87.125	16.143	1.00 36.81	BBBB
ATOM	4313	0	VAL B		-13.972	86.214	15.332	1.00 38.75	BBBB
ATOM ATOM	4314 4315	N CA	ALA B		-14.153	87.002	17.426	1.00 36.35	BBBB
ATOM	4316	CB	ALA B		-14.647 -14.627	85.746 85.807	17.972 19.475	1.00 36.96 1.00 35.69	BBBB BBBB
ATOM	4317	C	ALA B		-16.042	85.367	17.494	1.00 33.03	BBBB
ATOM	4318	0	ALA B		-16.296	84.192	17.193	1.00 41.85	BBBB
MOTA	4319	N	GLY B	63	-16.941	86.357	17.440	1.00 40.51	BBBB
MOTA	4320	CA	GLY B		-18.312	86.120	17.016	1.00 39.16	BBBB
MOTA	4321	C	GLY B		-18.486		15.519	1.00 39.36	BBBB
ATOM	4322	0	GLY B		-17.700		14.768	1.00 39.78	BBBB
ATOM ATOM	4323	N	TYR B		-19.509		15.079	1.00 37.88	BBBB
ATOM	4324 4325	CA CB	TYR E		-19.721 -21.164		13.643	1.00 35.80	BBBB
ATOM	4326	CG	TYR E		-22.235		13.242 13.934	1.00 33.30 1.00 31.41	BBBB BBBB
ATOM	4327		TYR E		-22.400		13.654	1.00 31.41	BBBB
MOTA	4328		TYR E		-23.371		14.311	1.00 26.22	BBBB
ATOM	4329		TYR E		-23.072		14.881	1.00 30.26	BBBB
MOTA	4330	CE2	TYR E	64	-24.037	87.898	15.532	1.00 27.97	BBBB
ATOM	4331	CZ	TYR E	64	-24.187	89.234	15.251	1.00 27.41	BBBB
ATOM	4332	OH	TYR E		-25.169		15.927	1.00 29.90	BBBB
ATOM	4333	С	TYR E		-19.377		13.217	1.00 36.12	BBBB
MOTA	4334	0	TYR E		-19.171		14.055	1.00 36.62	BBBB
ATOM ATOM	4335 4336	N	VAL E		-19.307		11.904	1.00 35.99	BBBB
ATOM	4336	CA CB	VAL E		-19.010 -17.758		11.304 10.405	1.00 34.85 1.00 33.30	BBBB BBBB
ATOM	4338		VAL E		-17.758 -17.523		9.722	1.00 33.30	BBBB
ATOM	4339		VAL E		-16.558		11.224	1.00 32.28	BBBB
MOTA	4340	C	VAL E		-20.205		10.444	1.00 35.28	BBBB
ATOM	4341	ō	VAL E		-20.472		9.414	1.00 35.08	BBBB
ATOM	4342	N	LEU E		-20.917		10.887	1.00 36.55	BBBB
ATOM	4343	CA	LEU E		-22.093		10.192	1.00 35.21	BBBB
MOTA	4344	CB	LEU E		-23.241		11.176	1.00 36.08	BBBB
ATOM	4345	CG	LEU E	66	-24.543	92.897	10.698	1.00 35.65	BBBB

ATOM	4346	CD1	LEU	В	66	-25.075	92.183	9.458	1.00 34.57	BBBB
ATOM	4347		LEU		66	-25.538	92.800	11.848	1.00 33.70	BBBB
					66	-21.814	93.483	9.586	1.00 34.79	BBBB
MOTA	4348	С	LEU							
ATOM	4349	0	LEU		66	-21.578	94.442	10.310	1.00 36.79	BBBB
ATOM	4350	N	ILE	В	67	-21.827	93.557	8.262	1.00 34.25	BBBB
ATOM	4351	CA	ILE	В	67	-21.601	94.806	7.539	1.00 33.94	BBBB
ATOM	4352	СВ	ILE		67	-20.406	94.668	6.606	1.00 30.89	BBBB
									1.00 26.77	BBBB
ATOM	4353		ILE		67	-20.353	95.812	5.638		
ATOM	4354	CG1	ILE	В	67	-19.132	94.612	7.444	1.00 30.51	BBBB
ATOM	4355	CD1	ILE	В	67	-17.955	94.034	6.715	1.00 30.23	BBBB
ATOM	4356	С	ILE	B	67	-22.877	95.085	6.746	1.00 36.67	BBBB
ATOM	4357	ō	ILE		67	-23.102	94.490	5.687	1.00 37.99	BBBB
									1.00 37.11	BBBB
ATOM	4358	N	ALA		68	-23.717	95.977	7.272		
ATOM	4359	CA	ALA	В	68	-24.988	96.285	6.634	1.00 38.62	BBBB
ATOM	4360	CB	ALA	В	68	-26.074	95.427	7.237	1.00 34.98	BBBB
ATOM	4361	С	ALA	В	68	-25.439	97.741	6.655	1.00 41.81	BBBB
ATOM	4362	ō	ALA		68	-25.190	98.483	7.616	1.00 43.44	BBBB
								5.568	1.00 42.51	BBBB
ATOM	4363	N	LEU		69	-26.117	98.116			
ATOM	4364	CA	LEU	В	69	-26.701	99.433	5.362	1.00 41.13	BBBB
MOTA	4365	CB	LEU	В	69	-27.864	99.641	6.351	1.00 40.99	BBBB
ATOM	4366	CG	LEU	В	69	-29.088	98.703	6.253	1.00 43.40	BBBB
ATOM	4367		LEU		69	-28.667	97.256	6.307	1.00 44.80	BBBB
							98.951	7.403	1.00 42.99	BBBB
ATOM	4368		LEU		69	-30.031			•	
ATOM	4369	С	LEU	В	69	-25.705	100.569	5.467	1.00 42.12	BBBB
MOTA	4370	0	LEU	В	69	-25.986	101.589	6.077	1.00 45.10	BBBB
ATOM	4371	N	ASN	В	70	-24.544	100.412	4.857	1.00 41.43	BBBB
ATOM	4372	CA	ASN		70		101.457	4.924	1.00 42.42	BBBB
MOTA	4373	CB	ASN		70		100.860	5.351	1.00 44.35	BBBB
ATOM	4374	CG	ASN	В	70	-22.249	100.205	6.706	1.00 45.54	BBBB
ATOM	4375	OD1	ASN	В	70	-22.214	100.886	7.732	1.00 47.62	BBBB
MOTA	4376	ND2	ASN	В	70	-22.375	98.876	6.721	1.00 44.33	BBBB
ATOM	4377	C	ASN		70		102.143	3.590	1.00 42.35	BBBB
					70		101.489	2.568	1.00 42.28	BBBB
ATOM	4378	0	ASN							
ATOM	4379	N	THR		71		103.467	3.597	1.00 43.79	BBBB
ATOM	4380	CA	THR	В	71	-23.167	104.196	2.350	1.00 43.99	BBBB
ATOM	4381	CB	THR	В	71	-24.081	105.433	2.275	1.00 42.39	BBBB
ATOM	4382	OG1	THR	В	71	-23,609	106.437	3.181	1.00 44.98	BBBB
ATOM	4383		THR		71		105.061	2.639	1.00 39.43	BBBB
									1.00 43.98	BBBB
ATOM	4384	С	THR		71		104.638	2.221		
ATOM	4385	0	THR	В	71		105.052	1.142	1.00 46.05	BBBB
ATOM	4386	N	VAL	В	72	-20.965	104.556	3.315	1.00 41.88	BBBB
ATOM	4387	CA	VAL	В	72	-19.557	104.942	3.274	1.00 41.35	BBBB
ATOM	4388	CB	VAL		72		104.627	4.612	1.00 39.06	BBBB
								4.858	1.00 35.73	BBBB
ATOM	4389		VAL		72		103.143			
ATOM '	4390	CG2	VAL	В	72	_	105.195	4.589	1:00 37.77	BBBB
ATOM	4391	С	VAL	В	72	-18.962	104.123	2.135	1.00 44.61	BBBB
ATOM	4392	0	VAL	В	72	-19.454	103.036	1.827	1.00 45.80	BBBB
ATOM	4393	N	GLU		73	-17 915	104.619	1.497	1.00 46.60	BBBB
	4394	CA	GLU		73		103.873	0.370	1.00 49.77	BBBB
ATOM									1.00 53.30	BBBB
ATOM	4395	CB	GLU		73		104.844	-0.714		
MOTA	4396	CG	GLU	В	73	-18.049	105.377	-1.566	1.00 59.10	BBBB
ATOM	4397	CD	GLU	В	73	-17.603	106.454	-2.527	1.00 63.29	BBBB
ATOM	4398	OE1	GLU	В	73	-16.594	106.230	-3.241	1.00 64.88	BBBB
ATOM	4399		GLU		73		107.518	-2.565	1.00 64.24	BBBB
								0.639	1.00 48.75	BBBB
MOTA	4400	С	GLU		73		102.844			
ATOM	4401	0	GLU	В	73		101.875	-0.110	1.00 49.11	BBBB
MOTA	4402	N	ARG	В	74	-15.516	103.043	1.694	1.00 46.54	BBBB
ATOM	4403	CA	ARG	В	74	-14.446	102.109	2.009	1.00 43.31	BBBB
ATOM	4404	CB	ARG		74		102.752	1.673	1.00 41.41	BBBB
							101.845	1.879	1.00 43.55	BBBB
ATOM	4405	CG	ARG		74					
ATOM	4406	CD	ARG	В	74		102.464	1.370	1.00 43.78	BBBB
MOTA	4407	NE	ARG	В	74	-9.726	101.434	0.872	1.00 48.82	BBBB
MOTA	4408	CZ	ARG	В	74	-8.620	101.034	1.493	1.00 51.30	BBBB
ATOM	4409		ARG		74	-8.265	101.587	2.651	1.00 52.41	BBBB
ATOM	4410		ARG		74		100.065	0.965	1.00 51.69	BBBB
									1.00 41.82	BBBB
MOTA	4411	C	ARG		74		101.659	3.472		
ATOM	4412	0	ARG	В	74	-14.592	102.469	4.388	1.00 41.44	BBBB
ATOM	4413	N	ILE	В	75	-14.370	100.356	3.679	1.00 39.86	BBBB
ATOM	4414	CA	ILE		75	-14.352		5.020	1.00 37.60	BBBB
ATOM	4415	CB	ILE		75	-15.553		5.240	1.00 34.27	BBBB
								6.641	1.00 34.36	BBBB
ATOM	4416		ILE		75 75	-15.501				
ATOM	4417		ILE		75	-16.831		5.044	1.00 30.98	BBBB
ATOM	4418	CD1	ILE	В	75	-18.081		5.393	1.00 31.35	BBBB
ATOM	4419	С	ILE		75	~13.049	98.999	5.120	1.00 37.82	BBBB
ATOM	4420	ō	ILE		75	-13.016		4.855	1.00 37.97	BBBB
LT OL		_	تالب	_						

ATOM 4426 C PRO B 76 -10.312 98.053 6.680 1.00 36.07 ATOM 4427 O PRO B 76 -9.391 98.183 7.482 1.00 36.88 ATOM 4428 N LEU B 77 -11.072 96.965 6.639 1.00 35.83 ATOM 4420 CA LEU B 77 -11.072 96.965 6.639 1.00 35.93 ATOM 4430 CB LEU B 77 -11.078 94.857 7.560 1.00 34.02 ATOM 4431 CG LEU B 77 -11.274 94.255 8.276 1.00 34.02 ATOM 4432 CD1 LEU B 77 -14.294 94.235 8.276 1.00 27.46 ATOM 4433 CD2 LEU B 77 -12.879 95.704 9.705 1.00 35.58 ATOM 4435 O LEU B 77 -9.569 95.140 6.962 1.00 35.76 ATOM 4435 O LEU B 77 -9.569 95.140 6.962 1.00 35.76 ATOM 4435 O LEU B 77 -9.569 95.140 6.962 1.00 35.76 ATOM 4435 O LEU B 77 -9.569 95.140 6.962 1.00 35.76 ATOM 4435 O LEU B 77 -9.569 95.140 6.962 1.00 35.76 ATOM 4435 O LEU B 77 -9.569 95.140 6.962 1.00 35.76 ATOM 4436 CB GLU B 78 -8.563 95.931 6.6655 1.00 37.90 ATOM 4437 CR GLU B 78 -8.563 95.931 6.655 1.00 37.90 ATOM 4438 CB GLU B 78 -8.563 95.931 6.655 1.00 37.90 ATOM 4439 CB GLU B 78 -6.070 98.894 4.859 1.00 45.69 ATOM 4430 CD GLU B 78 -6.070 98.895 4.682 1.00 45.69 ATOM 4430 CD GLU B 78 -6.153 99.087 5.610 1.00 50.79 ATOM 4440 CD GLU B 78 -6.534 94.348 6.765 1.00 45.63 ATOM 4441 O EL GLU B 78 -6.584 94.348 6.765 1.00 42.68 ATOM 4441 CB GLU B 78 -6.584 94.348 6.765 1.00 42.68 ATOM 4444 CB CB GLU B 78 -6.584 94.348 6.765 1.00 42.79 ATOM 4446 CA AND 8 P 9 -5.944 93.372 8.877 1.00 42.53 ATOM 4440 CB GLU B 78 -6.594 94.386 8.992 1.00 48.53 ATOM 4440 CD GLU B 78 -6.594 94.387 8.998 1.00 42.79 ATOM 4446 CA AND 8 P 9 -5.944 93.372 8.877 1.00 42.53 ATOM 4440 CD GLU B 78 -6.646 94.366 8.992 1.00 48.53 ATOM 4440 CD GLU B 78 -6.649 94.367 8.998 1.00 42.79 ATOM 4446 CA AND 8 P 9 -6.646 94.366 8.992 1.00 48.53 ATOM 4460 ND 2AND 8 P 9 -6.646 94.366 8.992 1.00 48.53 ATOM 4460 ND 2AND 8 P 9 -6.646 94.366 8.992 1.00 48.53 ATOM 4460 ND 2AND 8 P 9 -6.646 94.063 9.908 1.00 43.87 ATOM 4465 C LEU B 80 -1.03 4.00 4.00 9.955 1.00 43.47 ATOM 4465 C LEU B 80 -1.03 4.00 4.00 9.955 1.00 43.89 ATOM 4460 ND 2AND 8 P 9 -6.646 94.00 4.00 9.955 1.00 43.95 ATOM 4460 C A SNB 8 P 9 -6.668 94.00 99.80 9.908 1.00 43.95 AT										
ATOM 4422 CD PRO B 76 -12.067 101.022 6.110 1.00 35.83 ATOM 4424 CB PRO B 76 -10.588 91.65 5.575 1.00 36.58 ATOM 4424 CB PRO B 76 -9.798 100.430 5.996 1.00 34.96 ATOM 4426 CC PRO B 76 -10.312 98.053 6.680 1.00 34.77 ATOM 4426 C PRO B 76 -9.798 100.430 5.996 1.00 34.96 ATOM 4427 O PRO B 76 -9.391 98.133 7.482 1.00 35.83 ATOM 4428 N LEU B 77 -11.072 96.965 6.639 1.00 35.83 ATOM 4429 CA LEU B 77 -11.072 96.965 6.639 1.00 35.83 ATOM 4430 CB LEU B 77 -11.978 94.857 7.560 1.00 34.02 ATOM 4431 CG LEU B 77 -11.978 94.857 7.560 1.00 34.02 ATOM 4432 CD LEU B 77 -11.2879 95.100 6.962 1.00 36.56 ATOM 4433 CD LEU B 77 -9.569 95.140 6.962 1.00 36.56 ATOM 4435 O LEU B 77 -9.569 95.140 6.962 1.00 36.56 ATOM 4436 N GLU B 78 -8.563 95.931 6.605 1.00 35.58 ATOM 4436 C LEU B 77 -9.569 95.140 6.962 1.00 36.56 ATOM 4438 C B GLU B 78 -8.563 95.931 6.605 1.00 37.90 ATOM 4437 CA GLU B 78 -8.563 95.931 6.605 1.00 37.90 ATOM 4438 C B GLU B 78 -6.395 96.572 5.686 1.00 41.62 ATOM 4430 C G GLU B 78 -6.395 96.572 5.686 1.00 41.62 ATOM 4430 C G GLU B 78 -6.395 96.572 5.686 1.00 43.16 ATOM 4431 C G LEU B 77 -9.569 97.04 9.705 1.00 35.85 ATOM 4443 C G GLU B 78 -6.395 96.572 5.686 1.00 43.16 ATOM 4430 C G GLU B 78 -6.395 96.572 5.686 1.00 43.16 ATOM 4441 OEL GLU B 78 -6.395 96.572 5.686 1.00 43.16 ATOM 4441 OEL GLU B 78 -6.521 99.087 5.610 1.00 45.69 ATOM 4444 OEL GLU B 78 -6.521 99.087 5.610 1.00 46.59 ATOM 4445 N ASN B 79 -6.670 98.859 4.692 1.00 42.79 ATOM 4446 C ASN B 79 -5.291 93.505 6.752 5.686 1.00 43.16 ATOM 4445 N ASN B 79 -6.674 94.396 9.908 1.00 42.79 ATOM 4446 N ASN B 79 -6.694 94.396 9.908 1.00 42.79 ATOM 4446 N ASN B 79 -6.694 94.396 9.908 1.00 42.79 ATOM 4446 N ASN B 79 -5.943 93.505 6.752 1.00 43.47 ATOM 4446 N ASN B 79 -5.943 93.505 6.752 1.00 43.47 ATOM 4446 N ASN B 79 -6.694 94.396 9.908 1.00 42.33 ATOM 4449 OLD ASN B 79 -5.943 93.907 9.908 1.00 42.35 ATOM 4469 N ASN B 79 -6.694 94.396 9.908 1.00 42.35 ATOM 4469 N ASN B 79 -6.696 94.396 9.908 1.00 42.35 ATOM 4469 N ASN B 79 -6.908 94.396 9.908 1.00 42.35 ATOM 4469 N ASN B 79 -	ATOM	4421	N	PRO B	76	-11.961	99.678	5.515	1.00 36.88	BBBB
ATOM 4423 CA PRO B 76 -10.598 99.166 5.675 1.00 36.58 ATOM 4425 CG PRO B 76 -10.312 98.053 6.600 1.00 34.77 ATOM 4425 CG PRO B 76 -10.312 98.053 6.600 1.00 36.07 ATOM 4427 O PRO B 76 -10.312 98.053 6.600 1.00 36.07 ATOM 4427 O PRO B 76 -10.312 98.053 6.600 1.00 36.07 ATOM 4428 N LEU B 77 -11.072 96.955 6.639 1.00 38.98 ATOM 4429 CA LEU B 77 -11.072 96.955 6.639 1.00 38.98 ATOM 4430 CB LEU B 77 -11.978 94.857 7.560 1.00 38.98 ATOM 4431 CG LEU B 77 -11.978 94.857 7.560 1.00 33.37 ATOM 4432 CD LEU B 77 -12.279 95.704 9.705 1.00 35.58 ATOM 4433 CD LEU B 77 -12.279 95.704 9.705 1.00 35.58 ATOM 4433 CD LEU B 77 -12.279 95.704 9.705 1.00 35.58 ATOM 4435 N GUD B 78 -7.345 95.418 5.996 1.00 34.576 ATOM 4435 N GUD B 78 -7.345 95.418 5.996 1.00 34.576 ATOM 4435 N GUD B 78 -5.345 95.418 5.996 1.00 34.56 ATOM 4439 CG GUD B 78 -7.011 97.604 4.659 1.00 37.90 ATOM 4439 CG GUD B 78 -7.011 97.604 4.659 1.00 45.69 ATOM 4430 CD GUD B 78 -7.011 97.604 4.659 1.00 45.69 ATOM 4430 CD GUD B 78 -7.011 97.604 4.659 1.00 45.69 ATOM 4430 CD GUD B 78 -6.533 99.551 3.661 1.00 45.69 ATOM 4430 CD GUD B 78 -6.533 99.551 3.661 1.00 45.69 ATOM 4430 CD GUD B 78 -6.533 99.551 3.661 1.00 45.69 ATOM 4440 CD GUD B 78 -6.534 94.304 0.00 48.25 ATOM 4440 CD GUD B 78 -6.534 94.304 0.00 48.25 ATOM 4440 CD GUD B 78 -6.534 94.304 0.00 48.25 ATOM 4440 CD GUD B 78 -6.534 94.304 0.00 48.25 ATOM 4440 CD GUD B 78 -6.534 94.304 0.00 48.25 ATOM 4440 CD GUD B 78 -5.521 99.07 5.610 1.00 55.79 ATOM 4440 CD GUD B 78 -5.521 99.07 5.610 1.00 55.79 ATOM 4440 CD GUD B 78 -5.521 99.07 5.610 1.00 55.79 ATOM 4440 CD GUD B 78 -5.521 99.07 5.610 1.00 55.79 ATOM 4440 CD GUD B 78 -5.521 99.07 5.610 1.00 48.53 ATOM 4450 ND RUD B 78 -5.524 93.305 6.155 1.00 43.16 ATOM 4450 ND RUD B 78 -5.524 93.305 6.155 1.00 43.16 ATOM 4450 ND RUD B 78 -5.524 93.305 6.155 1.00 43.16 ATOM 4450 ND RUD B 78 -5.524 93.305 6.155 1.00 43.16 ATOM 4450 ND RUD B 78 -5.524 93.305 6.155 1.00 43.16 ATOM 4450 ND RUD B 78 -5.524 93.305 6.155 1.00 43.16 ATOM 4450 ND RUD B 78 -5.524 93.305 6.155 1.00 43.16 ATOM 4	ATOM	4422	CD							BBBB
ATOM 4424 CB PRO B 76	ATOM	4423	CA	PRO B	76					BBBB
ATOM 4425 CG PRO B 76 -10.734 101.176 6.840 1.00 34.77 ATOM 4427 O PRO B 76 -9.391 98.133 7.482 1.00 36.88 ATOM 4428 N LEU B 77 -11.072 96.955 6.639 1.00 35.89 ATOM 4429 CA LEU B 77 -11.072 96.955 6.639 1.00 35.83 ATOM 4429 CA LEU B 77 -11.978 94.857 7.560 1.00 34.02 ATOM 4430 CB LEU B 77 -11.978 94.857 7.560 1.00 34.02 ATOM 4431 CG LEU B 77 -12.279 95.704 9.705 1.00 35.98 ATOM 4433 CD LEU B 77 -12.279 95.704 9.705 1.00 35.98 ATOM 4433 CD LEU B 77 -9.559 95.106 .90.21 0.00 35.58 ATOM 4435 O LEU B 77 -9.559 95.106 .90.21 0.00 35.58 ATOM 4435 N GLU B 78 -9.559 95.106 .8695 1.00 37.90 ATOM 4435 N GLU B 78 -9.559 95.106 .8695 1.00 37.90 ATOM 4436 N GLU B 78 -6.395 96.572 5.686 1.00 37.90 ATOM 4437 CA GLU B 78 -6.395 96.572 5.686 1.00 43.16 ATOM 4443 CB GLU B 78 -5.251 99.07 5.600 1.00 45.69 ATOM 4440 CD GLU B 78 -6.070 98.859 4.692 1.00 45.69 ATOM 4441 CB GLU B 78 -5.251 99.07 5.610 1.00 50.79 ATOM 4443 C GU BLU B 78 -6.153 99.551 3.661 1.00 45.69 ATOM 4443 C GU BLU B 78 -6.533 99.551 3.661 1.00 45.69 ATOM 4444 O GLU B 78 -5.5251 99.07 5.610 1.00 50.79 ATOM 4441 CB GLU B 78 -5.5251 99.07 5.610 1.00 50.79 ATOM 4441 CB GLU B 78 -5.5251 99.07 5.610 1.00 50.79 ATOM 4440 N AND AND AND AND AND AND AND AND AND A	ATOM	4424	CB	PRO B	76					BBBB
ATOM 4426 C PRO B 76 -10.312 98.053 6.680 1.00 36.07  ATOM 4427 O PRO B 76 -9.391 98.183 7.482 1.00 36.88  ATOM 4428 N LEU B 77 -11.072 96.965 6.639 1.00 35.83  ATOM 4420 CA LEU B 77 -11.072 96.965 6.639 1.00 35.98  ATOM 4430 CE LEU B 77 -11.978 94.857 7.560 1.00 34.02  ATOM 4431 CG LEU B 77 -11.978 94.857 7.560 1.00 34.02  ATOM 4433 CD2 LEU B 77 -14.294 94.235 8.276 1.00 27.46  ATOM 4433 CD2 LEU B 77 -12.879 95.104 9.705 1.00 35.58  ATOM 4435 CD2 LEU B 77 -12.879 95.104 9.705 1.00 35.58  ATOM 4435 O LEU B 77 -9.529 93.916 6.857 1.00 35.76  ATOM 4435 N GJU B 78 -9.529 93.916 6.857 1.00 35.76  ATOM 4436 C GU B 77 -9.529 93.916 6.857 1.00 35.76  ATOM 4437 CA GJU B 78 -6.395 96.572 5.686 1.00 43.16  ATOM 4438 C G GJU B 78 -7.011 97.684 4.859 1.00 45.69  ATOM 4430 C G GJU B 78 -6.070 98.899 4.692 1.00 48.21  ATOM 4443 C C GU B 78 -6.153 99.087 5.610 1.00 50.79  ATOM 4443 C G GJU B 78 -6.554 94.348 6.765 1.00 50.79  ATOM 4443 C G GJU B 78 -6.554 94.348 6.765 1.00 45.69  ATOM 4443 C G GJU B 78 -6.554 94.348 6.765 1.00 42.68  ATOM 4446 C G GJU B 78 -6.554 94.348 6.765 1.00 42.68  ATOM 4446 C G A AN B 79 -6.664 94.366 8.092 1.00 42.53  ATOM 4446 C G A AN B 79 -6.664 94.366 8.092 1.00 42.53  ATOM 4446 C G A AN B 79 -6.664 94.366 8.092 1.00 42.53  ATOM 4446 C G A AN B 79 -6.644 94.366 8.092 1.00 43.55  ATOM 4446 C G A AN B 79 -6.649 94.388 6.765 1.00 43.77  ATOM 4446 C G A AN B 79 -6.649 94.399 9.981 1.00 34.46  ATOM 4451 C A AN B 79 -6.649 94.399 9.981 1.00 34.68  ATOM 4452 C C LEU B 80 -1.035 95.94 93.372 8.877 1.00 42.53  ATOM 4465 C G LEU B 80 -1.037 99.95 9.55 1.00 43.95  ATOM 4455 C G LEU B 80 -1.037 99.95 9.55 1.00 43.95  ATOM 4465 C G LEU B 80 -1.037 99.95 9.51 9.00 40.18  ATOM 4465 C G LEU B 80 -1.037 99.95 9.35 1.00 40.90  ATOM 4465 C G LEU B 80 -1.038 99.90 99.95 1.00 40.90  ATOM 4466 C G AN B 79 -6.646 94.09 99.90	MOTA	4425	CG	PRO B	76	-10.734	101.176			BBBB
ATCM 4428 N LEU B 77 -11.072 95.955 6.639 1.00 35.88 AROM 4429 CA LEU B 77 -10.800 95.840 7.533 1.00 35.98 AROM 4430 CB LEU B 77 -11.978 95.804 7.533 1.00 35.98 AROM 4431 CG LEU B 77 -13.244 95.319 8.291 1.00 33.37 AROM 4432 CD1 LEU B 77 -12.879 95.704 9.705 1.00 33.58 AROM 4433 CD2 LEU B 77 -12.879 95.704 9.705 1.00 35.58 AROM 4433 CD2 LEU B 77 -12.879 95.704 9.705 1.00 35.58 AROM 4433 CD2 LEU B 77 -9.569 95.104 6.962 1.00 36.56 AROM 4433 CD2 LEU B 77 -9.569 95.106 6.962 1.00 36.56 AROM 4435 O LEU B 77 -9.529 93.916 6.655 1.00 37.90 AROM 4436 CB GLU B 78 -8.533 95.931 6.605 1.00 37.90 AROM 4436 CB GLU B 78 -6.305 96.572 5.686 1.00 43.16 AROM 4439 CG GLU B 78 -6.070 98.859 4.692 1.00 46.69 AROM 4440 CD GLU B 78 -6.5251 99.087 5.610 1.00 50.79 AROM 4441 OEL GLU B 78 -6.5251 99.087 5.610 1.00 50.79 AROM 4444 O GLU B 78 -6.5261 99.087 5.610 1.00 50.79 AROM 4444 C CE GLU B 78 -6.5251 99.087 5.610 1.00 50.79 AROM 4444 C CE GLU B 78 -6.5261 99.087 5.610 1.00 50.79 AROM 4444 C CE GLU B 78 -6.5261 99.087 5.610 1.00 43.47 AROM 4444 C CE GLU B 78 -6.5261 99.087 5.610 1.00 43.47 AROM 4444 C CE GLU B 78 -6.5261 99.087 5.100 43.47 AROM 4444 C CE GLU B 78 -5.251 99.087 5.100 1.00 43.47 AROM 4445 C AROM 8.88 B 79 -5.083 99.561 3.661 1.00 43.47 AROM 4445 C AROM 8.88 B 79 -5.083 99.561 3.661 1.00 43.47 AROM 4445 C AROM 8.88 B 79 -5.083 99.561 3.661 1.00 43.47 AROM 4445 C AROM 8.88 B 79 -5.083 99.561 3.661 1.00 43.85 AROM 4449 ODL AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.664 94.366 8.502 1.00 43.85 AROM 4450 CD AROM 8.88 B 79 -6.6	MOTA	4426	C	PRO B	76	-10.312	98.053			BBBB
ATOM 4429 CA LEU B 77 -11.072 96.965 6.639 1.00 35.98 ATOM 4430 CB LEU B 77 -11.980 95.840 7.533 1.00 35.98 ATOM 4431 CG LEU B 77 -11.978 95.840 7.550 1.00 34.02 ATOM 4432 CD1 LEU B 77 -12.879 95.704 9.705 1.00 35.98 ATOM 4433 CD2 LEU B 77 -12.879 95.704 9.705 1.00 35.58 ATOM 4433 CD2 LEU B 77 -12.879 95.704 9.705 1.00 35.58 ATOM 4433 CD2 LEU B 77 -12.879 95.704 9.705 1.00 35.58 ATOM 4435 C LEU B 77 -5.569 95.140 6.055 1.00 35.76 ATOM 4436 N GLU B 78 -5.569 95.931 6.085 1.00 35.76 ATOM 4437 CA GLU B 78 -7.345 95.931 6.085 1.00 35.76 ATOM 4438 CB GLU B 78 -6.355 95.931 6.085 1.00 43.16 ATOM 4439 CG GLU B 78 -7.345 95.418 5.996 1.00 41.62 ATOM 4440 CD GLU B 78 -6.070 98.859 4.086 1.00 43.16 ATOM 4441 OEL GLU B 78 -6.070 98.859 4.086 1.00 45.69 ATOM 4442 OEZ GLU B 78 -6.153 99.087 5.610 1.00 50.79 ATOM 4442 OEZ GLU B 78 -5.251 99.087 5.610 1.00 50.79 ATOM 4444 OEL GLU B 78 -6.153 99.561 3.661 1.00 48.53 ATOM 4445 N ASN B 79 -6.664 94.366 8.092 1.00 42.79 ATOM 4445 C GANN B 79 -6.664 94.366 8.092 1.00 42.79 ATOM 4445 C GANN B 79 -6.064 94.366 8.092 1.00 42.79 ATOM 4446 CA ASN B 79 -6.064 94.366 8.092 1.00 42.79 ATOM 4447 OED ANN B 79 -6.664 94.366 8.092 1.00 42.79 ATOM 4449 ODI ANN B 79 -6.064 94.366 8.092 1.00 42.79 ATOM 4445 N ASN B 79 -6.072 94.894 9.274 1.00 47.28 ATOM 4451 C ANN B 79 -6.072 9.39 9.551 3.00 43.47 ATOM 4451 C ANN B 79 -6.072 9.309 9.555 1.00 40.728 ATOM 4452 O ANN B 79 -6.072 9.309 9.555 1.00 40.738 ATOM 4455 C B LEU B 80 -8.871 9.033 1.00 43.95 ATOM 4455 C B LEU B 80 -8.871 9.033 1.00 43.95 ATOM 4456 C G LEU B 80 -8.871 9.033 1.00 43.95 ATOM 4457 C D LEU B 80 -8.871 9.033 1.00 43.95 ATOM 4458 C D LEU B 80 -8.871 9.033 1.00 43.95 ATOM 4459 C D LEU B 80 -8.871 9.033 1.00 43.95 ATOM 4466 C G LEU B 80 -8.871 9.033 1.00 43.95 ATOM 4457 C D LEU B 80 -8.872 8.000 1.00 33.95 ATOM 4467 C D LEU B 80 -8.873 8.000 1.00 33.95 ATOM 4468 C G LEU B 80 -8.873 8.000 1.00 33.95 ATOM 4468 C G LEU B 80 -8.873 8.000 1.00 33.95 ATOM 4468 C G LEU B 80 -8.873 8.000 1.00 33.95 ATOM 4468 C G LEU B 80 -8.873 8.000 1.00 33	ATOM	4427	0	PRO B	76	-9.391				BBBB
ATOM 4429 CA LEU B 77 -10.800 95.840 7.533 1.00 35.98 ATOM 4430 CB LEU B 77 -11.978 94.857 7.550 1.00 34.02 ATOM 4431 CG LEU B 77 -12.879 95.704 9.705 1.00 35.78 ATOM 4432 CDI LEU B 77 -12.879 95.704 9.705 1.00 35.58 ATOM 4433 CD LEU B 77 -12.879 95.140 6.962 1.00 35.76 ATOM 4436 N GLU B 78 -9.559 93.916 6.857 1.00 35.76 ATOM 4436 N GLU B 78 -9.559 93.916 6.857 1.00 35.76 ATOM 4436 N GLU B 78 -9.559 93.916 6.857 1.00 35.76 ATOM 4436 N GLU B 78 -7.345 95.418 5.966 1.00 41.62 ATOM 4437 CA GLU B 78 -6.535 96.572 5.686 1.00 43.16 ATOM 4444 OEL GLU B 78 -6.070 98.859 4.692 1.00 48.21 ATOM 4441 OEL GLU B 78 -6.525 1.90.87 5.610 1.00 50.79 ATOM 4443 C GLU B 78 -6.524 99.087 5.610 1.00 50.79 ATOM 4443 C GLU B 78 -6.524 99.087 5.610 1.00 50.79 ATOM 4444 OEL GLU B 78 -6.524 99.087 5.610 1.00 50.79 ATOM 4444 OEL GLU B 78 -6.524 99.087 5.610 1.00 50.79 ATOM 4444 OEL GLU B 78 -6.554 94.348 6.765 1.00 42.68 ATOM 4444 OEL GLU B 78 -5.251 99.087 5.610 1.00 50.79 ATOM 4444 OEL GLU B 78 -6.564 94.346 6.857 1.00 43.47 ATOM 4444 OEL GLU B 78 -5.931 99.561 3.661 1.00 42.68 ATOM 4444 OEL GLU B 78 -5.931 99.561 3.661 1.00 42.68 ATOM 4445 N ANN B 79 -5.063 94.366 3.092 1.00 42.79 ATOM 4446 CA ASN B 79 -5.063 94.639 9.955 6.155 1.00 43.47 ATOM 4446 CA ASN B 79 -5.063 94.639 9.956 1.00 42.79 ATOM 4446 CA ASN B 79 -5.083 94.639 9.956 1.00 42.79 ATOM 4445 N ANN B 79 -5.083 94.639 9.958 1.00 42.79 ATOM 4450 NDZ ASN B 79 -6.703 94.894 9.274 1.00 47.28 ATOM 4451 C ASN B 79 -6.704 94.894 9.274 1.00 47.28 ATOM 4451 C ASN B 79 -6.704 94.894 9.274 1.00 47.28 ATOM 4455 C B LEU B 80 -8.896 91.283 99.591 1.00 48.81 ATOM 4455 C B LEU B 80 -8.896 91.283 99.591 1.00 48.81 ATOM 4456 C B LEU B 80 -8.896 91.283 99.591 1.00 41.48 ATOM 4466 C B LEU B 80 -8.896 91.283 99.591 1.00 41.48 ATOM 4466 C B LEU B 80 -8.896 91.283 99.591 1.00 40.60 ATOM 4457 CDI LEU B 80 -8.896 91.283 99.591 1.00 40.60 ATOM 4458 C B LEU B 80 -11.237 90.133 11.410 1.00 30.76 ATOM 4468 C B LEU B 80 -11.237 90.133 11.410 1.00 40.96 ATOM 4470 N ILE B 82 -9.289 84.300 12.156 1.00 43.95 A	ATOM	4428	N	LEU B	77	-11.072				BBBB
ARTOM 4430 CB LEU B 77 -11.978 94.857 7.560 1.00 34.02 NATOM 4431 CG LEU B 77 -13.244 95.319 8.281 1.00 33.37 ARTOM 4433 CDZ LEU B 77 -14.294 94.235 8.276 1.00 27.46 NATOM 4433 CDZ LEU B 77 -12.879 95.704 9.705 1.00 35.58 NATOM 4434 C LEU B 77 -9.569 95.140 6.962 1.00 36.56 NATOM 4435 N GLU B 78 -8.563 95.931 6.085 1.00 35.76 NATOM 4436 CB GLU B 78 -7.345 95.916 6.857 1.00 35.76 NATOM 4438 CB GLU B 78 -7.345 95.618 5.996 1.00 41.62 NATOM 4439 CG GLU B 78 -7.345 95.672 5.666 1.00 41.62 NATOM 4440 CD GLU B 78 -7.011 97.684 4.859 1.00 45.69 NATOM 4441 OEL GLU B 78 -6.070 98.859 4.682 1.00 45.69 NATOM 4441 OEL GLU B 78 -6.153 99.561 3.661 1.00 88.21 NATOM 4441 OEL GLU B 78 -5.251 99.087 5.610 1.00 50.79 NATOM 4442 OEZ GLU B 78 -6.153 99.561 3.661 1.00 48.53 NATOM 4444 OEL GLU B 78 -5.524 99.561 3.661 1.00 42.68 NATOM 4445 N ASN B 79 -5.944 93.372 8.877 1.00 42.33 NATOM 4445 CA ASN B 79 -5.644 93.366 8.092 1.00 42.73 NATOM 4445 CA ASN B 79 -5.944 93.372 8.877 1.00 42.33 NATOM 4446 CA ASN B 79 -5.083 94.063 9.908 1.00 43.85 NATOM 4445 OEL GLU B 78 -6.702 94.894 9.274 1.00 47.28 NATOM 4445 CD ASN B 79 -6.072 94.894 9.274 1.00 47.28 NATOM 4445 CD ASN B 79 -6.072 94.894 9.274 1.00 47.28 NATOM 4451 CA ASN B 79 -6.072 94.386 9.595 1.00 48.81 NATOM 4451 CA ASN B 79 -6.072 92.309 9.555 1.00 48.81 NATOM 4451 CA ASN B 79 -6.772 92.309 9.555 1.00 40.79 NATOM 4451 CA ASN B 79 -6.772 92.309 9.555 1.00 40.79 NATOM 4451 CA ASN B 79 -6.772 92.309 9.555 1.00 40.79 NATOM 4454 CA LEU B 80 -8.896 91.283 99.397 1.00 40.18 NATOM 4454 CA LEU B 80 -8.896 91.283 99.397 1.00 40.18 NATOM 4455 CB LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4455 CB LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4456 CB LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4457 CD LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4458 CB LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4458 CB LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4469 OL LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4469 CB LEU B 80 -8.896 91.283 99.397 1.00 40.70 NATOM 4469 CB LEU B 80 -8.896	MOTA	4429	CA	LEU B	77					BBBB
AROM 4431 CG LEU B 77	ATOM	4430	CB	LEU B	77	-11.978				BBBB
ATOM 4433 CDI LEU B 77 -14.294 94.235 8.276 1.00 27.46 ATOM 4433 CDE LEU B 77 -9.569 95.704 9.705 1.00 35.58 ATOM 4434 C LEU B 77 -9.569 95.704 9.705 1.00 35.58 ATOM 4435 O LEU B 77 -9.529 93.916 6.687 1.00 35.76 ATOM 4436 N GLU B 78 -8.563 95.931 6.605 1.00 37.90 ATOM 4437 CA GLU B 78 -7.345 95.418 5.996 1.00 41.62 ATOM 4438 CB GLU B 78 -7.345 95.418 5.996 1.00 41.62 ATOM 4439 CG GLU B 78 -7.011 97.684 4.859 1.00 45.69 ATOM 4441 OED GLU B 78 -6.070 98.859 4.682 1.00 46.59 ATOM 4442 OEZ GLU B 78 -5.251 99.087 5.610 1.00 50.79 ATOM 4443 C GLU B 78 -5.524 99.561 3.661 1.00 48.53 ATOM 4444 O GLU B 18 -6.153 99.561 3.661 1.00 48.53 ATOM 4444 O GLU B 78 -5.924 93.505 6.155 1.00 42.68 ATOM 4446 C A SN B 79 -6.664 94.366 8.092 1.00 42.79 ATOM 4445 CB ASN B 79 -5.944 93.372 8.877 1.00 42.79 ATOM 4448 CG ASN B 79 -5.944 93.372 8.877 1.00 42.33 ATOM 4449 ODL ASN B 79 -4.021 94.894 9.274 1.00 47.28 ATOM 4445 CA SN B 79 -4.021 94.894 9.274 1.00 47.28 ATOM 4445 CA SN B 79 -6.672 92.309 9.555 1.00 42.85 ATOM 4455 CD ASN B 79 -6.772 92.309 9.555 1.00 42.39 ATOM 4455 CD ASN B 79 -6.772 92.309 9.555 1.00 40.8.53 ATOM 4455 CD ASN B 79 -6.772 92.309 9.578 1.00 48.81 ATOM 4455 CD ASN B 79 -6.772 92.309 9.578 1.00 40.18 ATOM 4455 CD ASN B 79 -6.772 92.309 9.578 1.00 40.18 ATOM 4456 CG ASN B 79 -6.772 92.309 9.578 1.00 40.18 ATOM 4457 CD LEU B 80 -10.355 91.482 9.391 1.00 40.60 ATOM 4458 CD LEU B 80 -11.237 90.135 11.410 1.00 30.76 ATOM 4456 CG LEU B 80 -11.237 90.135 11.410 1.00 30.76 ATOM 4457 CD LEU B 80 -12.237 90.355 1.00 40.18 ATOM 4460 O LEU B 80 -12.237 90.355 1.00 40.18 ATOM 4461 N GLN B 81 -7.970 89.040 10.254 1.00 47.44 ATOM 4466 CG LEU B 80 -12.237 90.355 1.00 40.18 ATOM 4467 CD LEU B 80 -12.237 90.355 1.00 40.18 ATOM 4468 CG LEU B 80 -12.238 90.307 9.898 1.00 32.955 ATOM 4479 C LEU B 80 -12.239 90.307 9.388 1.00 32.955 ATOM 4479 CD LEU B 80 -12.239 90.307 9.389 1.00 40.60 ATOM 4479 CD LEU B 80 -12.239 90.307 9.389 1.00 40.96 ATOM 4478 CD LEU B 80 -12.239 90.309 90.300 1.00 43.49 ATOM 4468 CD LEU B 80 -12.239 90.309 90.3	ATOM	4431	CG	LEU B	77	-13.244				BBBB
ATOM 4434 C LEU B 77 -12.879 95.704 9.705 1.00 35.58 AROM 4434 C LEU B 77 -9.569 95.140 6.962 1.00 36.56 AROM 4436 N G DU B 78 -9.569 95.140 6.962 1.00 37.90 AROM 4437 CA GLU B 78 -7.345 95.418 5.996 1.00 41.62 AROM 4438 C G GLU B 78 -7.345 95.418 5.996 1.00 41.62 AROM 4439 C G GLU B 78 -7.011 97.684 4.859 1.00 45.69 AROM 4440 CD GLU B 78 -6.070 98.859 4.692 1.00 48.21 AROM 4441 CD GLU B 78 -5.251 99.087 5.610 1.00 50.79 AROM 4442 C GLU B 78 -6.584 94.348 6.765 1.00 42.68 AROM 4442 C GLU B 78 -6.584 94.348 6.765 1.00 42.68 AROM 4444 C GLU B 78 -6.584 94.348 6.765 1.00 42.68 AROM 4444 C GLU B 78 -5.251 99.087 5.610 1.00 40.50.79 AROM 4445 C AROM 4444 C GLU B 78 -5.5924 93.505 6.155 1.00 42.47 AROM 4445 N AROM 4446 CA AROM 8.99 -5.944 93.372 8.877 1.00 42.73 AROM 4446 CA AROM 8.99 -5.944 93.372 8.877 1.00 42.73 AROM 4445 N AROM 4449 C GLU B 78 -6.624 94.366 8.092 1.00 47.28 AROM 4445 C AROM 8.99 -5.944 93.372 8.877 1.00 42.73 AROM 4445 C AROM 8.99 -5.944 93.372 8.877 1.00 42.83 AROM 4445 C AROM 8.99 -5.944 93.372 8.877 1.00 47.28 AROM 4445 C AROM 8.99 -6.624 94.366 9.578 1.00 47.28 AROM 4450 ND2 AROM 8.99 -6.624 94.366 9.578 1.00 47.28 AROM 4451 C AROM 8.99 -7.021 94.894 9.594 9.504 1.00 47.28 AROM 4455 C AROM 8.99 -7.021 96.186 9.578 1.00 41.48 AROM 4455 C AROM 8.99 -7.021 96.186 9.578 1.00 41.48 AROM 4455 C AROM 8.99 -7.021 96.186 9.578 1.00 41.48 AROM 4457 CD1 LEU B 80 -8.896 91.283 9.922 1.00 42.79 AROM 4457 CD1 LEU B 80 -8.896 91.283 9.922 1.00 40.18 AROM 4456 C GLU B 80 -8.896 91.283 9.922 1.00 40.18 AROM 4457 CD1 LEU B 80 -11.237 90.335 1.00 40.03 3.99 AROM 4457 CD1 LEU B 80 -11.237 90.335 1.00 40.03 3.99 AROM 4457 CD1 LEU B 80 -11.237 90.335 1.00 40.73 AROM 4466 C GLU B 80 -11.238 90.397 9.938 1.00 32.95 AROM 4466 C GLU B 80 -11.238 90.397 9.938 1.00 32.95 AROM 4467 NC LEU B 80 -11.238 90.397 9.939 1.00 40.73 AROM 4467 NC LEU B 80 -11.238 90.397 9.939 1.00 40.418 AROM 4468 C GLU B 81 -4.494 88.91 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.999 9.	ATOM	4432	CD1	LEU B	77	-14.294	94.235			BBBB
ATOM 4435 O LEU B 77 -9.559 95.140 6.962 1.00 36.56 ATOM 4435 N GLU B 78 -9.559 93.916 6.605 1.00 35.76 ATOM 4437 CA GLU B 78 -8.563 95.931 6.605 1.00 37.90 ATOM 4438 CB GLU B 78 -7.345 95.418 5.996 1.00 43.16 ATOM 4439 CG GLU B 78 -7.011 97.684 4.859 1.00 43.15 ATOM 4430 CD GLU B 78 -6.070 98.859 4.692 1.00 48.21 ATOM 4441 OEL GLU B 78 -6.070 98.859 4.692 1.00 48.21 ATOM 4442 OEL GLU B 78 -6.653 99.867 5.610 1.00 50.79 ATOM 4444 O GLU B 78 -6.653 99.867 5.610 1.00 50.79 ATOM 4444 OEL GLU B 78 -6.653 99.867 5.610 1.00 48.23 ATOM 4442 OEL GLU B 78 -6.552 99.807 5.610 1.00 42.68 ATOM 4444 OFL GLU B 78 -6.584 94.348 6.765 1.00 42.68 ATOM 4444 OFL GLU B 78 -5.944 93.372 8.877 1.00 42.79 ATOM 4446 CA ASN B 79 -5.044 93.372 8.877 1.00 42.73 ATOM 4449 OEL ASN B 79 -5.049 93.505 6.155 1.00 43.47 ATOM 4449 OEL ASN B 79 -5.049 93.908 1.00 43.85 ATOM 4449 OEL ASN B 79 -6.702 94.989 9.274 1.00 47.28 ATOM 4450 NDZ ASN B 79 -4.021 94.894 9.274 1.00 47.28 ATOM 4451 C ASN B 79 -6.772 92.309 9.555 1.00 48.81 ATOM 4451 C ASN B 79 -6.772 92.309 9.555 1.00 48.81 ATOM 4452 O ASN B 79 -6.772 92.309 9.555 1.00 41.48 ATOM 4453 N LEU B 80 -8.071 92.309 9.555 1.00 40.18 ATOM 4455 CD LEU B 80 -10.355 91.482 9.519 1.00 40.18 ATOM 4456 CG LEU B 80 -10.355 91.482 9.519 1.00 40.18 ATOM 4457 CD LEU B 80 -11.237 90.135 11.410 1.00 32.76 ATOM 4456 CG LEU B 80 -11.237 90.135 11.410 1.00 32.95 ATOM 4457 CD LEU B 80 -12.635 90.538 1.00 40.60 32.93 ATOM 4466 CG GLU B 81 -7.970 89.040 10.254 1.00 47.44 ATOM 4467 NEZ GLU B 80 -12.635 90.538 1.00 40.60 32.93 ATOM 4467 NEZ GLU B 80 -12.635 90.538 1.00 40.60 32.93 ATOM 4468 CG GLU B 81 -7.970 89.040 10.254 1.00 47.3 ATOM 4467 NEZ GLU B 80 -12.635 90.538 1.00 40.00 55.66 ATOM 4470 C LEU B 80 -8.071 88.307 10.00 55.41 ATOM 4467 NEZ GLU B 80 -13.368 85.31 11.00 40.95 55.41 ATOM 4468 CD LEU B 80 -13.369 83.37 11.10 1.00 30.76 ATOM 4470 C LEU B 80 -13.37 88.38 11.10 1.00 40.95 55.41 ATOM 4471 CA LIE B 82 -9.989 83.368 1.00 43.95 ATOM 4478 C LEU B 80 -13.398 83.979 12.799 1.00 43.46 ATOM 4478 C LEU B 80 -13.3	ATOM	4433	CD2	LEU B	77	-12.879	95.704			BBBB
ATOM 4436 N GUU B 78 -8.563 95.931 66.655 1.00 37.90 ATOM 4436 N GUU B 78 -7.345 95.418 5.996 1.00 41.62 ATOM 4438 CB GUU B 78 -7.345 95.418 5.996 1.00 41.62 ATOM 4438 CB GUU B 78 -7.345 95.418 5.996 1.00 41.62 ATOM 4440 CD GUU B 78 -6.070 98.859 4.692 1.00 48.21 ATOM 4441 OEI GUU B 78 -5.251 99.087 5.610 1.00 50.79 ATOM 4442 OE2 GUU B 78 -6.153 99.861 3.661 1.00 48.53 ATOM 4443 C G GUU B 78 -6.584 94.348 6.765 1.00 42.68 ATOM 4445 C G GUU B 78 -6.584 94.348 6.765 1.00 42.68 ATOM 4445 N D GUU B 78 -6.584 94.348 6.765 1.00 42.68 ATOM 4446 C A ASN B 79 -5.944 93.372 8.877 1.00 42.79 ATOM 4446 CA ASN B 79 -5.944 93.372 8.877 1.00 42.79 ATOM 4445 N D GUU B 78 -6.584 94.348 8.92 1.00 42.79 ATOM 4445 CA ASN B 79 -5.944 93.372 8.877 1.00 47.28 ATOM 4445 NDL ASN B 79 -4.021 94.894 9.74 4.00 47.28 ATOM 4445 NDL ASN B 79 -4.021 94.894 9.74 4.00 47.28 ATOM 4450 NDL ASN B 79 -4.021 96.186 9.578 1.00 48.53 ATOM 4451 C ASN B 79 -6.276 92.309 9.555 1.00 41.48 ATOM 4455 NDL ASN B 79 -6.276 92.309 9.555 1.00 41.48 ATOM 4455 C ASN B 79 -6.276 92.309 9.555 1.00 41.48 ATOM 4456 C ASN B 79 -6.276 92.309 9.585 1.00 40.60 ATOM 4457 CDL EU B 80 -8.071 92.309 9.388 1.00 32.95 ATOM 4458 C DL EU B 80 -10.355 91.482 9.591 1.00 34.46 ATOM 4459 C LEU B 80 -11.238 99.307 9.898 1.00 32.95 ATOM 4469 C LEU B 80 -11.238 99.307 9.898 1.00 32.95 ATOM 4469 C LEU B 80 -11.238 99.307 9.899 1.00 34.99 ATOM 4469 C LEU B 80 -11.237 99.135 1.00 40.60 ATOM 4461 N GLN B 81 -7.970 89.040 10.254 1.00 43.95 ATOM 4467 C C LEU B 80 -11.237 99.135 1.00 40.70 ATOM 4467 C C LEU B 80 -11.238 99.307 9.899 1.00 34.99 ATOM 4467 NEZ GLN B 81 -7.970 89.040 10.254 1.00 30.76 ATOM 4467 C C LEU B 80 -12.355 99.589 9.375 1.00 40.73 ATOM 4468 C G GLN B 81 -7.970 89.040 10.254 1.00 39.95 ATOM 4467 C C LEU B 80 -12.355 99.589 9.375 1.00 40.73 ATOM 4467 C C LEU B 80 -12.635 99.581 1.00 40.95 ATOM 4467 C C LEU B 80 -12.635 99.581 1.00 30.95 ATOM 4468 C G GLN B 81 -3.988 86.591 1.00 40.95 ATOM 4468 C G GLN B 81 -3.988 86.591 1.00 40.95 ATOM 4468 C G GLN B 81 -3.988 86.591 1.00 40		4434	C	LEU B	77	-9.569	95.140	6.962	1.00 36.56	BBBB
ATOM 4436 N GLU B 78	ATOM	4435	0	LEU B	77	-9.529		6.857		BBBB
ATOM 4438 CB GLUB 78			N	GLU B	78	-8.563	95.931	6.605	1.00 37.90	BBBB
ATOM 4449 CG GLU B 76			CA	GLU B	78	-7.345	95.418	5.996	1.00 41.62	BBBB
ATOM 4440 CD GLU B 78			CB	GLU B	78	-6.395	96.572	5.686	1.00 43.16	BBBB
ATOM 4441 OEL GLU B 78		4439	CG	GLU B	78		97.684	4.859	1.00 45.69	BBBB
ATOM 4442 OE2 GLU B 78					78	-6.070	98.859	4.692	1.00 48.21	BBBB
ATCM 4444 C GLU B 78					78		99.087	5.610	1.00 50.79	BBBB
ATOM 4445 N ASN B 79							99.561	3.661	1.00 48.53	BBBB
ATOM 4445 N ASN B 79					78	-6.584	94.348	6.765	1.00 42.68	BBBB
ATOM 4446 CA ASN B 79						-5.924	93.505	6.155	1.00 43.47	BBBB
ATOM 4448 CG ASN B 79							94.366	8.092	1.00 42.79	BBBB
ATOM 4449 CG ASN B 79						-5.944	93.372	8.877	1.00 42.33	BBBB
ATCM 4449 OD1 ASN B 79						-5.083	94.063	9.908	1.00 43.85	BBBB
ATOM 4450 ND2 ASN B 79							94.894	9.274	1.00 47.28	BBBB
ATOM 4451 C ASN B 79								8.502	1.00 48.53	BBBB
ATOM 4452 O ASN B 79										BBBB
ATOM 4453 N LEU B 80										BBBB
ATOM 4454 CA LEU B 80						•			1.00 43.49	BBBB
ATOM 4455 CB LEU B 80										BBBB
ATOM 4456 CG LEU B 80 -11.238 90.307 9.898 1.00 32.95 ATOM 4457 CD1 LEU B 80 -11.237 90.135 11.410 1.00 30.76 ATOM 4458 CD2 LEU B 80 -12.635 90.538 9.368 1.00 32.93 ATOM 4459 C LEU B 80 -8.354 89.559 9.375 1.00 40.73 ATOM 4460 O LEU B 80 -8.270 89.782 8.171 1.00 42.10 ATOM 4461 N GLN B 81 -7.423 87.749 9.819 1.00 43.95 ATOM 4462 CA GLN B 81 -7.423 87.749 9.819 1.00 45.18 ATOM 4463 CB GLN B 81 -6.147 87.426 10.574 1.00 47.44 ATOM 4464 CG GLN B 81 -4.945 88.107 10.050 1.00 52.25 ATOM 4466 OE1 GLN B 81 -3.750 87.231 10.205 1.00 55.41 ATOM 4466 OE1 GLN B 81 -3.421 86.813 11.320 1.00 55.41 ATOM 4467 NE2 GLN B 81 -8.328 86.547 9.958 1.00 43.31 ATOM 4469 O GLN B 81 -8.328 86.547 9.958 1.00 43.31 ATOM 4470 N ILE B 82 -9.088 86.511 11.040 1.00 42.06 ATOM 4471 CA ILE B 82 -9.289 84.300 12.156 1.00 42.30 ATOM 4473 CG2 ILE B 82 -9.289 84.300 12.156 1.00 42.30 ATOM 4473 CG2 ILE B 82 -8.603 84.949 13.370 1.00 39.56 ATOM 4476 C ILE B 82 -9.784 82.255 13.542 1.00 40.39 ATOM 4477 O ILE B 82 -9.784 82.255 13.542 1.00 40.39 ATOM 4478 N ILE B 82 -9.784 82.255 13.542 1.00 40.39 ATOM 4479 CA ILE B 82 -11.238 85.085 11.931 1.00 40.39 ATOM 4479 CA ILE B 83 -12.343 85.089 11.604 1.00 40.39 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4480 CB ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4481 CG2 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 33.55 ATOM 4483 CD1 ILE B 83 -14.269 86.917 10.317 1.00 33.55 ATOM 4486 CN ARG B 84 -13.797 83.831 14.102 1.00 43.48 ATOM 4486 CN ARG B 84 -12.773 83.851 14.102 1.00 43.48 ATOM 4486 CN ARG B 84 -12.773 83.651 12.199 1.00 43.46 ATOM 4486 CN ARG B 84 -12.773 82.556 16.198 1.00 43.48 ATOM 4488 CG ARG B 84 -12.675 82.579 17.623 1.00 43.85										BBBB
ATOM 4457 CD1 LEU B 80 -11.237 90.135 11.410 1.00 30.76 ATOM 4458 CD2 LEU B 80 -12.635 90.538 9.368 1.00 32.93 ATOM 4459 C LEU B 80 -8.354 89.959 9.375 1.00 40.73 ATOM 4460 O LEU B 80 -8.270 89.782 8.171 1.00 42.10 ATOM 4461 N GLN B 81 -7.970 89.040 10.254 1.00 43.95 ATOM 4462 CA GLN B 81 -7.423 87.749 9.819 1.00 45.18 ATOM 4463 CB GLN B 81 -6.147 87.426 10.574 1.00 47.44 ATOM 4464 CG GLN B 81 -6.147 87.426 10.574 1.00 55.11 ATOM 4466 CD1 GLN B 81 -3.750 87.231 10.205 1.00 55.11 ATOM 4466 OE1 GLN B 81 -3.421 86.813 11.320 1.00 55.41 ATOM 4466 OE1 GLN B 81 -3.421 86.813 11.320 1.00 55.41 ATOM 4468 C GLN B 81 -8.342 86.547 9.958 1.00 43.31 ATOM 4469 O GLN B 81 -8.316 85.647 9.116 1.00 42.96 ATOM 4470 N ILE B 82 -9.988 86.511 11.040 1.00 42.96 ATOM 4471 CA ILE B 82 -9.988 86.511 11.040 1.00 42.06 ATOM 4472 CB ILE B 82 -9.289 84.300 12.156 1.00 42.30 ATOM 4473 CG2 ILE B 82 -9.289 84.300 12.156 1.00 42.30 ATOM 4475 CD1 ILE B 82 -9.784 82.255 13.542 1.00 46.10 ATOM 4476 C ILE B 82 -11.278 85.805 11.931 1.00 40.36 ATOM 4477 O ILE B 82 -9.784 82.255 13.542 1.00 46.10 ATOM 4478 N ILE B 83 -12.343 85.089 11.601 1.00 40.39 ATOM 4479 CA ILE B 83 -14.406 85.683 11.112 1.00 39.57 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4481 CG2 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4486 N ARG B 84 -14.055 82.536 14.714 1.00 43.41 ATOM 4488 CG ILE B 83 -14.209 86.917 10.317 1.00 37.12 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.46 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4488 CG ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96										BBBB
ATOM 4458 CD2 LEU B 80										BBBB
ATOM 4459 C LEU B 80										BBBB
ATOM 4460 O LEU B 80										BBBB
ATOM 4461 N GLN B 81 -7.970 89.040 10.254 1.00 43.95 ATOM 4462 CA GLN B 81 -7.423 87.749 9.819 1.00 45.18 ATOM 4463 CB GLN B 81 -6.147 87.426 10.574 1.00 47.44 ATOM 4464 CG GLN B 81 -6.147 87.426 10.574 1.00 47.44 ATOM 4465 CD GLN B 81 -3.750 87.231 10.205 1.00 52.25 ATOM 4466 OE1 GLN B 81 -3.750 87.231 10.205 1.00 55.41 ATOM 4466 OE1 GLN B 81 -3.086 86.925 9.084 1.00 55.66 ATOM 4467 NE2 GLN B 81 -8.316 85.647 9.958 1.00 43.31 ATOM 4469 O GLN B 81 -8.316 85.647 9.958 1.00 43.31 ATOM 4470 N ILE B 82 -9.088 86.511 11.040 1.00 42.96 ATOM 4471 CA ILE B 82 -9.978 85.386 11.267 1.00 41.80 ATOM 4472 CB ILE B 82 -9.289 84.300 12.156 1.00 42.30 ATOM 4473 CG2 ILE B 82 -8.603 84.949 13.370 1.00 39.56 ATOM 4474 CG1 ILE B 82 -9.784 82.255 13.542 1.00 46.10 ATOM 4477 O ILE B 82 -11.315 86.756 12.708 1.00 39.04 ATOM 4477 O ILE B 82 -11.315 86.756 12.708 1.00 39.04 ATOM 4478 N ILE B 83 -12.343 85.089 11.604 1.00 40.39 ATOM 4478 N ILE B 83 -12.343 85.089 11.604 1.00 39.57 ATOM 4478 N ILE B 83 -12.343 85.089 11.604 1.00 39.57 ATOM 4479 CA ILE B 83 -14.706 85.683 11.11 1.100 39.57 ATOM 4488 CB ILE B 83 -14.269 86.917 10.317 1.00 39.57 ATOM 4485 CG ILE B 83 -14.269 86.917 10.317 1.00 39.57 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.46 ATOM 4487 CA ARG B 84 -13.797 83.831 14.102 1.00 43.48 ATOM 4488 CB ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4488 CB ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4488 CB ARG B 84 -12.173 82.6554 16.381 1.00 40.96 ATOM 4489 CG ARG B 84 -12.173 82.6554 16.381 1.00 40.96										BBBB
ATOM 4462 CA GLN B 81										BBBB
ATOM 4463 CB GLN B 81										BBBB
ATOM 4464 CG GIN B 81										BBBB
ATOM 4465 CD GLN B 81										BBBB
ATOM 4466 OE1 GLN B 81										BBBB
ATOM 4467 NE2 GLN B 81										BBBB
ATOM 4468 C GLN B 81										BBBB
ATOM 4469 O GLN B 81										BBBB BBBB
ATOM 4470 N ILE B 82	ATOM									BBBB
ATOM 4471 CA ILE B 82	ATOM									BBBB
ATOM 4472 CB ILE B 82	ATOM	4471								BBBB
ATOM 4473 CG2 ILE B 82	ATOM	4472	CB	ILE B						BBBB
ATOM 4474 CG1 ILE B 82 -10.322 83.268 12.599 1.00 41.21 ATOM 4475 CD1 ILE B 82 -9.784 82.255 13.542 1.00 46.10 ATOM 4476 C ILE B 82 -11.278 85.805 11.931 1.00 40.36 ATOM 4477 O ILE B 82 -11.315 86.756 12.708 1.00 39.04 ATOM 4478 N ILE B 83 -12.343 85.089 11.604 1.00 40.39 ATOM 4479 CA ILE B 83 -13.652 85.335 12.190 1.00 41.65 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4481 CG2 ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55 ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 38.59	ATOM	4473	CG2	ILE B	82					BBBB
ATOM 4475 CD1 ILE B 82	MOTA	4474	CG1	ILE B	82	-10.322	83.268	12.599		BBBB
ATOM 4476 C ILE B 82 -11.278 85.805 11.931 1.00 40.36 ATOM 4477 O ILE B 82 -11.315 86.756 12.708 1.00 39.04 ATOM 4478 N ILE B 83 -12.343 85.089 11.604 1.00 40.39 ATOM 4479 CA ILE B 83 -13.652 85.335 12.190 1.00 41.65 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4481 CG2 ILE B 83 -16.048 85.911 11.763 1.00 38.32 ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55 ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59	ATOM	4475	CD1	ILE B	82	-9.784	82.255	13.542		BBBB
ATOM 4477 O ILE B 82 -11.315 86.756 12.708 1.00 39.04 ATOM 4478 N ILE B 83 -12.343 85.089 11.604 1.00 40.39 ATOM 4479 CA ILE B 83 -13.652 85.335 12.190 1.00 41.65 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4481 CG2 ILE B 83 -16.048 85.911 11.763 1.00 38.32 ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55 ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59	ATOM	4476	С	ILE B	82	-11.278	85.805	11.931	1.00 40.36	BBBB
ATOM 4478 N ILE B 83 -12.343 85.089 11.604 1.00 40.39 ATOM 4479 CA ILE B 83 -13.652 85.335 12.190 1.00 41.65 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4481 CG2 ILE B 83 -16.048 85.911 11.763 1.00 38.32 ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55 ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59			0		82	-11.315		12.708		BBBB
ATOM 4479 CA ILE B 83 -13.652 85.335 12.190 1.00 41.65 ATOM 4480 CB ILE B 83 -14.706 85.683 11.112 1.00 39.57 ATOM 4481 CG2 ILE B 83 -16.048 85.911 11.763 1.00 38.32 ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55 ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59	ATOM	4478	И	ILE B	83	-12.343	85.089	11.604	1.00 40.39	BBBB
ATOM 4481 CG2 ILE B 83 -16.048 85.911 11.763 1.00 38.32 ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55 ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59					83	-13.652	85.335		1.00 41.65	BBBB
ATOM 4482 CG1 ILE B 83 -14.269 86.917 10.317 1.00 37.12 ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55 ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59					83	-14.706	85.683	11.112	1.00 39.57	BBBB
ATOM 4483 CD1 ILE B 83 -15.231 87.291 9.231 1.00 33.55  ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46  ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29  ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41  ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55  ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48  ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96  ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59					83	-16.048	85.911	11.763	1.00 38.32	BBBB
ATOM 4484 C ILE B 83 -13.988 83.979 12.799 1.00 43.46 ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29 ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59							86.917	10.317	1.00 37.12	BBBB
ATOM 4485 O ILE B 83 -14.407 83.066 12.089 1.00 46.29  ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41  ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55  ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48  ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96  ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59								9.231	1.00 33.55	BBBB
ATOM 4486 N ARG B 84 -13.797 83.831 14.102 1.00 43.41 ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59							83.979	12.799	1.00 43.46	BBBB
ATOM 4487 CA ARG B 84 -14.055 82.536 14.714 1.00 45.55 ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59										BBBB
ATOM 4488 CB ARG B 84 -13.689 82.567 16.198 1.00 43.48 ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59										BBBB
ATOM 4489 CG ARG B 84 -12.173 82.654 16.381 1.00 40.96 ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59										BBBB
ATOM 4490 CD ARG B 84 -11.722 82.792 17.823 1.00 38.59										BBBB
22.722 22.7020 2.700 30.09										BBBB
ATTOM AARI ME BOOK OA AA COO CO COO CO COO COO COO COO COO										BBBB
NMON 4400 OF BOOK S										BBBB
AUCH 4402 NULL TOOL DOLLARS										BBBB
7004 4404 NUO 770 P										BBBB
700V 440E G 700 D										BBBB
ATOM 4495 C ARG B 84 -15.453 81.991 14.498 1.00 47.14			-		04	-10.403	01.331	14.478	1.00 47.14	BBBB

MOTA	4496	0	ARG	В	84	-15.613	80.808	14.234	1.00 49.19	BBBB
ATOM	4497	N	GLY	В	85	-16.463	82.843	14.587	1.00 48.60	BBBB
ATOM	4498	CA	GLY	В	85	-17.815	82.374	14.374	1.00 48.64	BBBB
ATOM	4499	С	GLY	В	85	-18.389	81.697	15.595	1.00 50.67	BBBB
ATOM	4500	0	GLY		85	-19.225	80.798	15.480	1.00 48.65	BBBB
ATOM	4501	N	ASN		86	-17.942	82.141	16.769	1.00 53.10	BBBB
ATOM	4502	CA	ASN		86	-18.402	81.589	18.042	1.00 54.54	BBBB
MOTA	4503	CB	ASN		86	-17.627	82.219	19.195	1.00 54.61	BBBB
MOTA	4504	CG	ASN		86	-16.249	81.608	19.372	1.00 56.34	BBBB
MOTA	4505 4506		ASN		86	-15.633	81.136	18.413	1.00 56.95	BBBB
ATOM ATOM	4506	C C	ASN ASN		86 86	-15.752 -19.890	81.625 81.806	20.602 18.241	1.00 57.43 1.00 55.92	BBBB BBBB
ATOM	4508	0	ASN		86	-20.531	81.078	18.988	1.00 53.92	BBBB
ATOM	4509	N		В	87	-20.435	82.820	17.582	1.00 57.87	BBBB
ATOM	4510	CA	MET		87	-21.860	83.111	17.668	1.00 60.00	BBBB
ATOM	4511	CB		В	87	-22.123	84.244	18.669	1.00 62.33	BBBB
ATOM	4512	CG	MET		87	-21.395	84.059	20.012	1.00 66.91	BBBB
ATOM	4513	SD	MET		87	-22.417	84.113	21.518	1.00 72.34	BBBB
ATOM	4514	CE	MET	В	87	-23.030	82.377	21.611	1.00 67.27	BBBB
ATOM	4515	С	MET	В	87	-22.239	83.517	16.256	1.00 59.89	BBBB
ATOM	4516	0	MET	В	87	-21.458	84.180	15.578	1.00 59.63	BBBB
ATOM	4517	N	TYR	В	88	-23.417	83.099	15.801	1.00 60.95	BBBB
ATOM	4518	CA	TYR	В	88	-23.869	83.412	14.440	1.00 61.45	BBBB
ATOM	4519	CB	TYR		88	-24.503	82.180	13.789	1.00 61.90	BBBB
ATOM	4520	CG	TYR		88	-23.583	81.006	13.532	1.00 61.81	BBBB
ATOM	4521		TYR		88	-24.109	79.741	13.253	1.00 60.71	BBBB
MOTA	4522		TYR		88	-23.279	78.652	13.016	1.00 60.41	BBBB
ATOM	4523		TYR		88	-22.199	81.151	13.565	1.00 61.50	BBBB
ATOM	4524		TYR		88	-21.357	80.064	13.330	1.00 60.35	BBBB
ATOM ATOM	4525	CZ	TYR		88	-21.903	78.818	13.056	1.00 60.28	BBBB
ATOM	4526 4527	OH C	TYR TYR		88 88	-21.073 -24.888	77.743 84.545	12.827 14.329	1.00 58.07 1.00 61.70	BBBB BBBB
ATOM	4528	Ö	TYR		88	-24.888	84.957	15.306	1.00 60.43	BBBB
ATOM	4529	N	TYR		89	-25.039	85.031	13.105	1.00 62.59	BBBB
ATOM	4530	CA	TYR		89	-26.001	86.072	12.778	1.00 63.34	BBBB
ATOM	4531	CB	TYR		89	-25.330	87.197	11.992	1.00.62.11	BBBB
ATOM	4532	CG	TYR		89	-26.315	88.183	11.410	1.00 61.42	BBBB
ATOM	4533		TYR		89	-26.983	89.097	12.224	1.00 60.04	BBBB
ATOM	4534		TYR		89	-27.929	89.964	11.703	1.00 59.26	BBBB
ATOM	4535	CD2	TYR	В	89	-26.619	88.169	10.049	1.00 61.65	BBBB
ATOM	4536	CE2	TYR	В	89	-27.564	89.037	9.517	1.00 60.54	BBBB
ATOM	4537	CZ	TYR	В	89	-28.215	89.926	10.350	1.00 60.25	BBBB
ATOM	4538	OH	TYR		89	-29.164	90.765	9.826	1.00 62.99	BBBB
ATOM	4539	C	TYR		89	-27.021	85.366	11.890	1.00 64.25	BBBB
ATOM	4540	0.	TYR		89	20.043	84.768	10.882		BBBB
ATOM	4541	N	GLU		90	-28.294	85.422	12.267	1.00 65.76	BBBB
ATOM	4542 4543	CA CB	GLU GLU		90 90	-29.346 -29.301	84.760 85.200	11.497 10.032	1.00 67.85 1.00 69.69	BBBB BBBB
ATOM ATOM	4544	CG	GLU		90	-29.597	86.661	9.804	1.00 71.76	BBBB
MOTA	4545	CD	GLU		90	-30.963		10.309	1.00 74.36	BBBB
ATOM	4546		GLU		90	-31.173	87.036	11.545	1.00 74.39	BBBB
ATOM	4547		GLU		90	-31.826	87.406	9.467	1.00 75.93	BBBB
ATOM	4548	С	GLU		90	-29.207	83.241	11.562	1.00 68.00	BBBB
ATOM	4549	0	GLU		90	-29.669	82.528	10.670	1.00 68.57	BBBB
ATOM	4550	N	ASN	В	91	-28.556	82.762	12.618	1.00 68.13	BBBB
ATOM	4551	CA	ASN	В	91	-28.337	81.333	12.848	1.00 67.95	BBBB
ATOM	4552	CB	ASN	В	91	-29.669	80.575	12.856	1.00 69.00	BBBB
ATOM	4553	CG	ASN		91	-30.695	81.207	13.765	1.00 71.88	BBBB
ATOM	4554		ASN		91	-31.211	82.284	13.472	1.00 75.06	BBBB
ATOM	4555		ASN		91	-31.000	80.543	14.880	1.00 73.03	BBBB
ATOM	4556	С	ASN		91	-27.407	80.626	11.864	1.00 66.56	BBBB
ATOM	4557	0	ASN		91	-27.245	79.415	11.947	1.00 65.89	BBBB
ATOM	4558	N	SER		92	-26.777	81.350	10.946	1.00 65.76	BBBB
ATOM	4559 4560	CA	SER		92	-25.927 -26.720	80.658	9.984 8.699	1.00 64.21 1.00 65.15	BBBB BBBB
ATOM ATOM	4561	CB OG	SER SER		92 92	-28.720 -28.057	80.400 80.035	8.699	1.00 65.15	BBBB
ATOM	4562	C	SER		92 92	-24.609	81.302	9.588	1.00 67.88	BBBB
ATOM	4563	0	SER		92	-23.638	80.596	9.309	1.00 62.10	BBBB
ATOM	4564	N	TYR		93	-24.562	82.629	9.565	1.00 59.13	BBBB
ATOM	4565	CA	TYR		93	-23.357	83.308	9.099	1.00 55.10	BBBB
ATOM	4566	CB	TYR		93	-23.747	84.390	8.095	1.00 54.89	BBBB
ATOM	4567	CG	TYR		93	-24.796	83.909	7.136	1.00 55.78	BBBB
ATOM	4568		TYR		93	-26.149	84.059	7.425	1.00 55.09	BBBB
ATOM	4569		TYR		93	-27.122	83.546	6.580	1.00 57.00	BBBB
ATOM	4570	CD2	TYR	В	93	-24.438	83.233	5.969	1.00 56.75	BBBB

ATOM	4571	CE2	TYR	В	93	-25.402	82.714	5.117	1.00	57.26	BBBB
ATOM	4572	CZ	TYR	В	93	-26.743	82.872	5.428		57.82	
ATOM	4573	OH	TYR		93	-27.705					BBBB
ATOM								4.594		60.01	BBBB
	4574	С	TYR		93	-22.409		10.097	1.00	51.04	BBBB
MOTA	4575	0	TYR		93	-22.812	84.461	11.113	1.00	52.06	BBBB
MOTA	4576	И	ALA	В	94	-21.131	83.788	9.784	1.00	46.53	BBBB
ATOM	4577	CA	ALA	В	94	-20.104	84.365	10.620	1.00	44.08	BBBB
MOTA	4578	СВ	ALA	В	94	-18.870	83.474	10.639		44.09	BBBB
ATOM	4579	C	ALA		94	-19.789	85.704				
ATOM	4580	Ö						9.959		41.92	BBBB
			ALA		94	-19.311	86.628	10.606		41.53	BBBB
ATOM	4581	N	LEU		95	-20.069	85.791.	8.660	1.00	39.21	BBBB
ATOM	4582	CA	LEU	В	95	-19.843	87.012	7.887	1.00	37.76	BBBB
ATOM	4583	CB	LEU	В	95	-18.631	86.852	6.979	1.00	35.49	BBBB
ATOM	4584	CG	LEU	В	95	-18.415	88.070	6.094		33.63	BBBB
ATOM	4585		LEU		95	-17.960	89.215	6.962			
ATOM	4586		LEU							32.01	BBBB
					95	-17.405	87.759	5.008		32.10	BBBB
ATOM	4587	С	LEU		95	-21.048	87.373	7.017	1.00	37.37	BBBB
MOTA	4588	0	LEU	В	95	-21.444	86.595	6.152	1.00	37.51	BBBB
ATOM	4589	N	ALA	В	96	-21.617	88.554	7.235	1.00	36.61	BBBB
ATOM	4590	CA	ALA	В	96	-22.766	89.006	6.450		36.07	BBBB
ATOM	4591	CB	ALA		96	-24.054	88.870	7.252		35.49	
ATOM	4592	C	ALA		96						BBBB
						-22.627	90.442	5.982		36.77	BBBB
ATOM	4593	0	ALA		96	-22.650	91.365	6.790	1.00	36.64	BBBB
MOTA	4594	И	VAL		97	-22.473	90.624	4.675	1.00	37.08	BBBB
ATOM	4595	CA	VAL	В	97	-22.382	91.954	4.080	1.00	36.61	BBBB
ATOM	4596	CB	VAL	В	97	-21.276	91.992	3.045	1.00	33.72	BBBB
ATOM	4597	CG1	VAL	В	97	-21.214	93.361	2.396		34.52	BBBB
ATOM	4598		VAL		97	-19.964	91.655	3.708			
ATOM	4599	C	VAL							30.28	BBBB .
					97	-23.750	92.201	3.414		40.04	BBBB
ATOM	4600	0	VAL		97	-24.046	91.640	2.348	1.00	40.99	BBBB
ATOM	4601	N	LEU	В	98	-24.577	93.041	4.037	1.00	40.18	BBBB
ATOM	4602	CA	LEU	В	98	-25.929	93.277	3.533	1.00	41.20	BBBB
ATOM	4603	CB	LEU	В	98	-26.925	92.620	4.479		41.33	BBBB
ATOM	4604	CG	LEU		98	-26.601	91.186	4.875		42.90	
ATOM	4605		LEU		98						BBBB
						-27.601	90.721	5.932		41.80	BBBB
ATOM	4606		LEU		98	-26.624	90.307	3.644	1.00	40.29	BBBB
ATOM	4607	С	LEU		98	-26.444	94.686	3.266	1.00	42.77	BBBB
MOTA	4608	0	LEU	В	98	-26.367	95.566	4.126	1.00	42.58	BBBB
ATOM	4609	N	SER	В	99	-27.013	94.860	2.072	1.00	44.07	BBBB
ATOM	4610	CA	SER	В	99	-27.636	96.115	1.634		43.49	BBBB
ATOM	4611	CB	SER		99	-29.022	96.267				
ATOM	4612	OG						2.281		42.90	BBBB
			SER		99	-29.770	95.058	2.217		45.09	BBBB
ATOM	4613	С	SER		99	-26.829	97.338	1.963	1.00	43.69	BBBB
ATOM	4614	0	SER	В	99	-27.286	98.191	2.702	1.00	45.84	BBBB
ATOM	4615	N	ASN	B~	100	-25.639	97.445	1.403	1.700	45.90	BBBB
ATOM	4616	CA	ASN	В	100	-24.801	98.591	1.687		48.44	BBBB
ATOM	4617	CB	ASN			-23.388	98.105	2.016		49.23	
ATOM	4618	CG	ASN			-23.381	97.146				BBBB
ATOM								3.205		48.22	BBBB
	4619					-23.935	97.460	4.251		49.17	BBBB
ATOM	4620		ASN			-22.774	95.979	3.043	1.00	46.97	BBBB
MOTA	4621	С	ASN	В	100	-24.801	99.602	0.558	1.00	51.52	BBBB
ATOM	4622	0	ASN	В	100	-23.842	99.702	-0.212	1.00	51.65	BBBB
ATOM	4623	N	TYR	В	101	-25.897	100.353	0.473		55.58	BBBB
ATOM	4624	CA	TYR				101.382	-0.551		60.68	
ATOM	4625	CB	TYR				100.736	-1.907		58.10	BBBB
ATOM	4626	CG									BBBB
			TYR				100.050	-1.973		56.83	BBBB
ATOM	4627		TYR				100.690	-2.530	1.00	56.30	BBBB
MOTA	4628		TYR			-30.023	100.082	-2.536	1.00	54.54	BBBB
ATOM	4629	CD2	TYR	В	101	-27.847	98.784	-1.427	1.00	55.12	BBBB
ATOM	4630	CE2	TYR	В	101	-29.090	98.170	-1.426	1.00	53.97	BBBB
MOTA	4631	CZ	TYR			-30.171	98.824	-1.981		54.07	BBBB
ATOM	4632	OH	TYR								
ATOM	4633					-31.406	98.225	-1.966		54.99	BBBB
		C	TYR				102.305	-0.204		64.67	BBBB
ATOM	4634	0	TYR				101.886	0.438		65.31	BBBB
ATOM	4635	N	ASP			-27.134	103.557	-0.640	1.00	68.49	BBBB
ATOM	4636	CA	ASP				104.555	-0.393		72.63	BBBB
MOTA	4637	CB	ASP				105.968	-0.565		72.49	BBBB
ATOM	4638	CG	ASP				106.098	-1.803		73.86	BBBB
ATOM	4639		ASP				105.573				
ATOM	4640							-2.865		74.76	BBBB
			ASP				106.727	-1.719		72.76	BBBB
ATOM	4641	С	ASP				104.353	-1.347	1.00	75.37	BBBB
ATOM	4642	0	ASP	В	102	-29.906	103.258	-1.425	1.00	76.35	BBBB
ATOM	4643	N	ALA	В	103	-29.695	105.411	-2.075		77.78	BBBB
ATOM	4644	CA	ALA				105.373	-3.025		79.29	BBBB
ATOM	4645	СВ	ALA				106.695				
			,n	ر	_ U	JI. 331	100.032	-2.994	1.00	78.26	BBBB

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ATOM	4646	С	ALA	В	103	-30.333	105.083	-4.447	1.00 80.41	BBBB
ATOM	4647	ō	ALA			-30.642		-5.011	1.00 81.20	BBBB
ATOM	4648	N	ASN			-29.581		-5.013	1.00 80.61	BBBB
ATOM	4649	CA	ASN			-29.065	105.916	-6.380	1.00 81.29	BBBB
ATOM	4650	СВ	ASN			-28.580		-6.862	1.00 82.46	BBBB
ATOM	4651	CG	ASN			-27.643		-5.871	1.00 82.49	BBBB
ATOM	4652		ASN			-27.225		-6.078	1.00 82.91	BBBB
ATOM	4653		ASN			-27.312	107.273	-4.791	1.00 81.62	BBBB
ATOM	4654	С	ASN			-27.955		-6.589	1.00 80.84	BBBB
ATOM	4655	ō	ASN			-26.962		-7.261	1.00 80.88	BBBB
ATOM	4656	N	LYS			-28.135		-6.033	1.00 80.14	BBBB
ATOM	4657	CA	LYS			-27.142		-6.161	1.00 79.17	BBBB
ATOM	4658	CB	LYS			-27.145		-7.587	1.00 81.07	BBBB
ATOM	4659	CG	LYS			-28.340		-7.930	1.00 82.51	BBBB
ATOM	4660	CD	LYS			-29.637		-8.045	1.00 84.76	BBBB
ATOM	4661	CE	LYS			-30.783		-8.547	1.00 85.10	BBBB
ATOM	4662	NZ	LYS			-32.066		-8.716	1.00 83.62	BBBB
ATOM	4663	C	LYS			-25.732		-5.800	1.00 77.06	BBBB
ATOM	4664	Ö	LYS			-24.759		-6.498	1.00 77.14	BBBB
ATOM	4665	N	THR			-25.633		-4.712	1.00 73.98	BBBB
ATOM	4666	CA	THR			-24.349		-4.239	1.00 70.90	BBBB
ATOM	4667	CB	THR			-24.377		-4.070	1.00 72.66	BBBB
ATOM	4668		THR			-24.736		-5.315	1.00 75.33	BBBB
ATOM	4669		THR			-23.013		-3.639	1.00 74.16	BBBB
ATOM	4670	C	THR			-24.091		-2.882	1.00 66.88	BBBB
ATOM	4671	õ	THR				103.756	-1.997	1.00 66.07	BBBB
ATOM	4672	N	GLY			-22.920		-2.712	1.00 61.92	BBBB
ATOM	4673	CA	GLY				102.483	-1.445	1.00 56.83	BBBB
ATOM	4674	C	GLY				101.962	-1.300	1.00 52.70	BBBB
ATOM	4675	0	GLY				102.476	-1.909	1.00 50.41	BBBB
ATOM	4676	N	LEU				100.932	-0.478	1.00 49.74	BBBB
MOTA	4677	CA	LEU				100.332	-0.217	1.00 47.30	BBBB
ATOM	4678	CB	LEU			-19.963	99.122	0.720	1.00 46.02	BBBB
	4679	CG	LEU			-18.666	98.472	1.204	1.00 45.49	BBBB
ATOM	4680		LEU			-17.889	99.473	2.027	1.00 45.39	BBBB
ATOM			LEU			-18.967	97.241	2.020	1.00 46.00	BBBB
ATOM	4681		LEU			-19.162	99.887	-1.527	1.00 44.95	BBBB
ATOM	4682	C	LEU			-19.817	99.287	-2.363	1.00 44.03	BBBB
ATOM	4683	о И	LYS				100.180	-1.701	1.00 43.95	BBBB
ATOM	4684 4685	CA	LYS			-17.207	99.797	-2.923	1.00 45.52	BBBB
MOTA	4686	CB	LYS				101.041	-3.743	1.00 48.22	BBBB
ATOM	4687	CG			109		100.734	-5.134	1.00 53.19	BBBB
MOTA	4688	CD			109		102.000	-5.862	1.00 56.53	BBBB
ATOM ATOM	4689	CE			109		102.630	-5.157	1.00 59.64	BBBB
ATOM	4690	NZ			109		103.881	-5.825	1.00 59.80	BBBB
ATOM	4691	C			109	-15.943	99.018	-2.626	1.00 43.85	BBBB
ATOM	4692	Ö			109	-15.625		-3.311	1.00 43.22	BBBB
ATOM	4693	И			110	-15.225	99.445	-1.601	1.00 43.26	BBBB
MOTA	4694		GLU			-13.972		-1.223	1.00 42.93	BBBB
ATOM	4695	CB			110	-12.852		-1.261	1.00 41.19	BBBB
ATOM	4696	CG			110		100.616		1.00 42.88	BBBB
ATOM	4697	CD			110		101.750	-2.530	1.00 43.28	BBBB
ATOM	4698		GLU				102.194	-3.599	1.00 44.28	BBBB
ATOM	4699		GLU				102.209	-1.424	1.00 42.95	BBBB
ATOM	4700	C			110	-14.026		0.170	1.00 44.20	BBBB
ATOM	4701	Ö			110	-14.114		1.194	1.00 44.29	BBBB
ATOM	4702	N			111	-13.984		0.191	1.00 42.27	BBBB
ATOM	4703	CA			111	-13.989		1.428	1.00 40.51	BBBB
ATOM	4704	CB			111	-15.271		1.509	1.00 37.18	BBBB
ATOM	4705	CG			111	-15.477		2.699	1.00 38.53	BBBB
ATOM	4706		LEU			-15.595		3.992	1.00 35.62	BBBB
ATOM	4707		LEU			-16.736		2.486	1.00 38.83	BBBB
ATOM	4708	CDI			111	-12.753		1.316	1.00 39.38	BBBB
MOTA	4709	Ö			111	-12.865		1.288	1.00 42.51	BBBB
ATOM	4710	N			112	-11.557		1.255	1.00 36.35	BBBB
ATOM	4711	CD			112	-11.296		1.457	1.00 34.17	BBBB
ATOM	4712	CA			112	-10.303		1.127	1.00 37.14	BBBB
ATOM	4713	CB			112	-9.296		0.791	1.00 35.39	BBBB
ATOM	4713	CG			112	-9.792		1.650	1.00 35.36	BBBB
ATOM	4714	C			112	-9.852		2.316	1.00 38.61	BBBB
ATOM	4716	0			112	-8.891		3.021	1.00 39.63	BBBB
ATOM	4717	N			113	-10.532		2.533	1.00 37.25	BBBB
ATOM	4718	CA			113	-10.165		3.612	1.00 37.71	BBBB
ATOM	4718	CB			113	-11.411		4.074		BBBB
ATOM	4719	CG			113	-12.540		4.482	1.00 35.66	BBBB
ATOM	7120	-03	ال خلاء	0	117	12,540	J2.4J4	4.404		

ATOM	4721	SD	MET B	113	-13.924	91.504	5.337	1.00 36.14	BBBB
ATOM	4722	CE	MET B	113	-14.398	90.291	4.138	1.00 35.85	BBBB
ATOM	4723	С	MET B	113	-9.047	91.140	3.107	1.00 39.20	BBBB
ATOM	4724	0	MET B						
					-9.193	89.917	3.055	1.00 37.57	BBBB
ATOM	4725	И	ARG B	114	-7.928	91.766	2.746	1.00 40.53	BBBB
ATOM	4726	CA	ARG B	114	-6.732	91.131	2.199	1.00 42.71	BBBB
ATOM	4727	CB	ARG B		-5.720	92.213	1.843	1.00 43.49	BBBB
MOTA	4728	CG	ARG B	114	-5.335	93.008	3.088	1.00 47.26	BBBB
MOTA	4729	CD	ARG B	11/					
					-4.210	93.997	2.884	1.00 47.49	BBBB
ATOM	4730	ΝE	ARG B	114	-4.559	95.038	1.935	1.00 50.83	BBBB
ATOM	4731	CZ	ARG B	114	-4.207	96.310	2.063	1.00 51.46	BBBB
ATOM	4732		ARG B		-3.496	96.702	3.115	1.00 50.88	BBBB
ATOM	4733	NH2	ARG B	114	-4.549	97.180	1.124	1.00 52.84	BBBB
ATOM	4734	С	ARG B	111	-6.026	90.126	3.103	1.00 43.99	
									BBBB
MOTA	4735	0	ARG B	114	-4.987	89.581	2.717	1.00 45.79	BBBB
ATOM	4736	N	ASN B	115	-6.549	89.898	4.301	1.00 42.37	BBBB
MOTA	4737	CA	ASN B						
					-5.934	88.952	5.225	1.00 41.86	BBBB
ATOM	4738	CB	ASN B	115	-5.256	89.702	6.381	1.00 41.29	BBBB
ATOM	4739	CG	ASN B	115	-3.921	90.325	5.974	1.00 41.79	BBBB
ATOM	4740		ASN B		-2.977	89.617	5.631	1.00 41.21	BBBB
MOTA	4741	ND2	ASN B	115	-3.842	91.651	6.008	1.00 43.32	BBBB
ATOM	4742	С	ASN B	115	-6.931	87.940	5.773	1.00 42.94	
									BBBB
ATOM	4743	0	ASN B		-6.551	86.940	6.366	1.00 46.00	BBBB
ATOM	4744	N	LEU B	116	-8.215	88.200	5.583	1.00 42.55	BBBB
ATOM	4745	CA	LEU B		-9.231				
						87.285	6.059	1.00 41.84	BBBB
ATOM	4746	CB	LEU B	116	-10.616	87.789	5.684	1.00 37.86	BBBB
ATOM	4747	·CG	LEU B	116	-11.740	86.839	6.058	1.00 37.21	BBBB
ATOM	4748								
			LEU B		-11.855	86.748	7.580	1.00 37.01	BBBB
ATOM	4749	CD2	LEU B	116	-13.034	87.342	5.451	1.00 37.20	BBBB
ATOM	4750	С	LEU B	116	-8.976	85.943	5.390	1.00 44.16	
									BBBB
ATOM	4751	0	LEU B	116	-9.349	85.724	4.237	1.00 45.34	BBBB
MOTA	4752	N	GLN B	117	-8.334	85.040	6.113	1.00 45.78	BBBB
ATOM	4753	CA	GLN B						
					-8.047	83.742	5.548	1.00 46.67	BBBB
ATOM	4754	CB	GLN B	117	-6.539	83.527	5.556	1.00 47.11	BBBB
MOTA	4755	CG	GLN B	117	-5.890	84.405	4.500	1.00 48.45	BBBB
ATOM	4756	CD							
			GLN B		-4.447	84.696	4.768	1.00 50.40	BBBB
MOTA	4757	OE1	GLN B	117	-4.084	85.114	5.870	1.00 52.68	BBBB
ATOM	4758	NE2	GLN B	117	-3.605	84.497	3.759	1.00 51.31	BBBB
ATOM	4759	C	GLN B		-8.793	82.595	6.205	1.00 46.50	BBBB
ATOM	4760	0	GLN B	117	-8.794	81.479	5.693	1.00 46.81	BBBB
ATOM	4761	N	GLU B	118	-9.486	82.878	7.302	1.00 45.49	BBBB
ATOM	4762	CA	GLU B	118	-10.214	81.825	7.978	1.00 44.03	BBBB
MOTA	4763	CB	GLU B	118	-9.296	81.181	9.016	1.00 45.93	BBBB
ATOM	4764	CG	GLU B		-9.926	80.062			
							9.800	1.00 45.76	BBBB
MOTA	4765	CD	GLU B	118	-9.362	78.718	9.420	1.004 <i>-</i> 7- <i>-</i> -93	-BBBB-
MOTA	4766	OE1	GLU B	118	-8.111	78.595	9.396	1.00 45.04	BBBB
ATOM	4767	OE2							
					-10.170	77.794	9.157	1.00 48.53	BBBB
ATOM	4768	С	GLU B	118	-11.507	82.252	8.654	1.00 43.99	BBBB
ATOM	4769	0	GLU B	118	-11.579	83.292	9.307	1.00 43.19	BBBB
	4770						•		
ATOM		N	ILE B		-12.525	81.416	8.496	1.00 45.31	BBBB
MOTA	4771	CA	ILE B	119	-13.827	81.621	9.118	1.00 46.92	BBBB
MOTA	4772	CB	ILE B	119	-14.939	81.988	8.097	1.00 44.93	BBBB
ATOM	4773		ILE B						
					-16.287	82.037	8.799	1.00 43.65	BBBB
ATOM	4774	CG1	ILE B	119	-14.646	83.339	7.447	1.00 43.05	BBBB
ATOM	4775	CD1	ILE B	119	-15.807	83.882	6.658	1.00 42.27	BBBB
ATOM	4776	C							
			ILE B		-14.141	80.253	9.687	1.00 49.30	BBBB
ATOM	4777	0	ILE B		-14.980	79.539	9.151	1.00 52.83	BBBB
ATOM	4778	N	LEU B	120	-13.440	79.893	10.758	1.00 51.66	BBBB
ATOM									
	4779	CA	LEU B		-13.582	78.602	11.431	1.00 52.26	BBBB
ATOM	4780	CB	LEU B	120	-13.074	78.700	12.863	1.00 53.27	BBBB
ATOM	4781	CG	LEU B	120	~11.609	79.071	12.996	1.00 53.79	BBBB
ATOM	4782		LEU B		-11.272	79.263	14.465	1.00 56.21	BBBB
ATOM	4783	CD2	LEU B	120	-10.760	77.978	12.369	1.00 55.02	BBBB
ATOM	4784	С	LEU B		-14.977	78.023	11.459	1.00 53.13	BBBB
ATOM	4785	0	LEU B		-15.171	76.846	11.172	1.00 55.10	BBBB
ATOM	4786	N	HIS B	121	-15.954	78.836	11.824	1.00 53.83	BBBB
ATOM	4787	CA	HIS B						
					-17.316	78.344	11.872	1.00 55.84	BBBB
MOTA	4788	CB	HIS B	121	-17.737	78.175	13.330	1.00 58.57	BBBB
ATOM	4789	CG	HIS B	121	-16.898	77.188	14.087	1.00 65.05	BBBB
ATOM	4790		HIS B						
					-16.032	77.355	15.116	1.00 65.79	BBBB
MOTA	4791	ND1	HIS B	121	-16.879	75.842	13.786	1.00 67.29	BBBB
ATOM	4792	CEI	HIS B	121	-16.038	75.222	14.597	1.00 67.99	BBBB
ATOM	4793		HIS B						
					-15.510	76.118	15.413	1.00 67.35	BBBB
MOTA	4794	С	HIS B	121	-18.268	79.276	11.130	1.00 54.97	BBBB
ATOM	4795	0	HIS B	121	-17.949	80.437	10.907	1.00 54.08	BBBB

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ATOM	4796	N	GLY	В	122	-19	.415	78.748	10.713	1.00	53.92	BBBB	
ATOM	4797	CA	GLY				.407	79.564	10.037		54.50	BBBB	
ATOM	4798	С	GLY			-20	.272	79.840	8.550	1.00	55.53	BBBB	
ATOM	4799	0	GLY	В	122	-19	.197	79.733	7.961	1.00	56.26	BBBB	
ATOM	4800	N	ALA				.390	80.217	7.941		56.46	BBBB	
MOTA	4801	CA	ALA				.429	80.519	6.518		57.24	BBBB	
MOTA	4802	CB	ALA				.756	80.080	5.936		56.75	BBBB	
ATOM	4803	С	ALA				.222	82.001	6.250		57.69	BBBB	
ATOM	4804	0	ALA				.243	82.829	7.164		57.70	BBBB	
ATOM	4805	N	VAL				.021	82.317	4.977		57.56	BBBB	
ATOM ATOM	4806 4807	CA CB	VAL VAL				.824	83.682 83.792	4.532 3.693		57.01 56.42	BBBB BBBB	
ATOM	4808		VAL				.551 .326	85.229	3.269		56.96	BBBB	
ATOM	4809		VAL				.373	83.280	4.492		55.83	BBBB	
ATOM	4810	C	VAL				.034	84.058	3.685		57.65	BBBB	
ATOM	4811	ō	VAL				.650	83.195	3.061		58.70	BBBB	
ATOM	4812	N	ARG				.383	85.340	3.670		58.34	BBBB	
MOTA	4813	CA	ARG	В	125		.529	85.798	2.894	1.00	56.99	BBBB	
ATOM	4814	CB	ARG	В	125	-24	.816	85.617	3.694	1.00	58.12	BBBB	
MOTA	4815	CG	ARG	В	125	-25	.996	86.378	3.122	1.00	59.56	BBBB	
ATOM	4816	CD	ARG				.298	85.644	3.356		61.96	BBBB	
MOTA	4817	NE	ARG				.416	86.321	2.708		65.48	BBBB	
ATOM	4818	CZ	ARG				.011	87.410	3.184		67.53	BBBB	
ATOM	4819		ARG				.605	87.961	4.322		67.92	BBBB	
ATOM	4820		ARG				.017	87.953	2.519		69.10	BBBB	
ATOM	4821	C	ARG				.454	87.239	2.426		55.73	BBBB	
ATOM ATOM	4822 4823	0 N	ARG PHE				. 581	88.163	3.224		55.11 55.93	BBBB BBBB	
ATOM	4823	CA	PHE				.251	87.414 88.735	1.124 0.506		55.15	BBBB	
ATOM	4825	CB	PHE				.048	88.828	-0.474		52.32	BBBB	
ATOM	4826	CG	PHE				.733	89.080	0.179		52.87	BBBB	
ATOM	4827	CD1					.143	88.111	0.978		53.18	BBBB	
ATOM	4828	CD2	PHE		126		.082	90.297	0.005	1.00	52.86	BBBB	
MOTA	4829	CE1	PHE	В	126	-18	.915	88.350	1.596	1.00	53.31	BBBB	
ATOM	4830	CE2	PHE	В	126	-18	.857	90.549	0.617		53.38	BBBB	
ATOM	4831	CZ	PHE		126		.272	89.572	1.414		52.98	BBBB	
MOTA	4832	C			126		.524	88.950	-0.220		55.55	BBBB	
ATOM	4833	0			126		.099	88.010	-0.760		55.27	BBBB	
ATOM	4834	N	SER				.009	90.185	-0.233		56.38 56.14	BBBB	
MOTA MOTA	4835 4836	CA CB	SER SER				.289 .383	90.462 89.646	-0.872 -0.178		56.36	BBBB BBBB	
ATOM	4837	OG	SER				.649	90.237	-0.380		58.63	BBBB	
ATOM	4838	C	SER				.687	91.939	-0.893		55.25	BBBB	
ATOM	4839	0	SER				.644	92.631	0.126		54.09	BBBB	
		-N	-ASN-	В-	-1:2:8			92:-399		—1 <del>∵0</del> 0-	-53-:89-	- BBBB-	
ATOM	4841	CA	ASN	В	128	-27	.510	93.774	-2.294	1.00	53.43	BBBB	
ATOM	4842	CB	ASN				.716	94.131	-1.429		54.98	BBBB	
ATOM	4843	CG	ASN				. 907	93.264	-1.716	1.00	59.01	BBBB	
ATOM	4844		ASN				.994	93.498	-1.193		62.44	BBBB	
ATOM	4845		ASN				.713	92.242	-2.545		60.25	BBBB	
ATOM ATOM	4846	C	ASN				.432	94.790	-2.037		51.62 52.05	BBBB BBBB	
ATOM	4847 4848	O N	asn asn				.624	95.711 94.639	-1.250 -2.705		49.60	BBBB	
ATOM	4849	CA	ASN				.224	95.593	-2.532		50.71	BEBB	
ATOM	4850	СВ	ASN				.028	94.886	-1.892		50.65	BBBB	
ATOM	4851	CG	ASN				.399	94.233	-0.567	_	50.68	BBBB	
ATOM	4852		ASN				.833	94.907	0.365	1.00	49.95	BBBB	
MOTA	4853		ASN				.256	92.916	-0.488	1.00	51.25	BBBB	
MOTA	4854	С	ASN	В	129	-23	.924	96.167	-3.915	1.00	51.09	BBBB	
ATOM	4855	0	ASN				.837	96.004	-4.465		50.80	BBBB	
MOTA	4856	N			130		.916	96.877	-4.481		52.04	BBBB	
ATOM	4857	CD			130		.083	97.322	-3.690		52.20	BBBB	
ATOM	4858	CA			130		.928	97.532	-5.789		50.19	BBBB	
ATOM	4859	CB			130		.035	98.570	-5.640		51.13	BBBB	
ATOM	4860	CG			130		.009	97.877	-4.749		50.78	BBBB BBBB	
ATOM ATOM	4861 4862	C 0			130 130		.629	98.157 98.324	-6.235 -7.432		49.43 51.44	BBBB	
ATOM	4863	N	ALA				.409 :.758	98.324	-7.432		47.13	BBBB	
ATOM	4864	CA	ALA				.504	99.133	-5.657		44.63	BBBB	
ATOM	4865	CB	ALA					100.492	-4.996		43.20	BBBB	
ATOM	4866	C	ALA				.248		-5.335		43.92	BBBB	
ATOM	4867	ō	ALA				.155		-5.666		42.82	BBBB	
ATOM	4868	N			132		.402		-4.707		46.29	BBBB	
MOTA	4869	CA	LEU				.254	96.379	-4.280		47.15	BBBB	
ATOM	4870	CB	LEU	В	132	-19	.733	95.255	-3.363	1.00	45.86	BBBB	

ATOM	4871	CG	LEU	В	132	-18.611	94.617	-2.545	1.00	45.84	מ	BBB
ATOM	4872		LEU			-17.713	95.687	-1.940		43.20		
												BBB
ATOM	4873	CD2	LEU			-19.232	93.757	-1.467	1.00	46.84	В	BBB
MOTA	4874	С	LEU	В	132	-18.339	95.796	-5.353	1.00	47.03	В	BBB
ATOM	4875	0			132	-18.761	94.988	-6.169		49.55		BBB
ATOM	4876	N			133							
						-17.071	96.188	-5.301		46.67	В	BBB
MOTA	4877	CA	CYS	В	133	-16.060	95.756	-6.256	1.00	47.56	В	BBB
ATOM	4878	С	CYS	В	133	-15.140	94.615	-5.807	1.00	47.98	P	BBB
ATOM	4879	0			133	-15.023	94.317	-4.619		47.13		
ATOM	4880	CB										BBB
					133	-15.180	96.948	-6.643		50.84	В	BBB
ATOM	4881	SG			133	-15.962	98.187	-7.732	1.00	55.97	В	BBB
ATOM	4882	N	ASN	В	134	-14.479	94.000	-6.790	1.00	46.92		BBB
ATOM	4883	CA	ASN			-13.527	92.905	-6.587		44.92		
ATOM	4884	СВ										BBB
			ASN			-12.280	93.448	-5.905		44.68	В	BBB
ATOM	4885	CG	ASN			-11.664	94.610	-6.658	1.00	45.74	В	BBB
ATOM	4886	OD1	ASN	В	134	-11.217	94.461	-7.791	1.00	45.46	R	BBB
ATOM	4887	ND2	ASN	В	134	-11.635	95.775	-6.029		45.30		BBB
ATOM	4888	С	ASN									
						-13.996	91.648	-5.840	1.00	44.29	В	BBB
ATOM	4889	0	ASN	В	134	-13.952	90.545	-6.381	1.00	42.79	В	BBB
ATOM	4890	N	VAL	В	135	-14.432	91.814	-4.598	1.00	43.28	B	BBB
ATOM	4891	CA			135	-14.871	90.693	-3.773		42.01		
ATOM	4892	CB										BBB
					135	-15.923	91.164	-2.716		39.61	В	BBB
ATOM	4893		VAL			-16.339	90.013	-1.816	1.00	37.26	В	BBB
ATOM	4894	CG2	VAL	В	135	-15.328	92.259	-1.865	1.00	36.16		BBB
ATOM	4895	С			135	-15.396	89.459	-4.527		42.61		
ATOM												BBB
	4896	0			135	-15.121	88.337	-4.118	1.00	43.35	В	BBB
ATOM	4897	N	GLU	₿	136	-16.126	89.644	-5.623	1.00	43.47	В	BBB
ATOM	4898	CA	GLU	В	136	-16.649	88.488	-6.372	1.00	45.43		BBB
ATOM	4899	CB			136	-17.531	88.949	-7.563		44.18		
	4900											BBB
ATOM		CG	GLU			-16.819	89.433	-8.838	1.00	44.47	В	BBB
ATOM	4901	CD	GLU	В	136	-15.899	90.648	-8.639	1.00	47.18	В	BBB
MOTA	4902	OE1	GLU	В	136	-16.181	91.478	-7.739	1.00	49.37		BBB
ATOM	4903	OE2				-14.902	90.783	-9.400		44.04		
												BBB
MOTA	4904	Ç			136	-15.549	87.519	-6.861	1.00	45.81	В	BBB
ATOM	4905	0	GLU	В	136	-15.801	86.328	-7.043	1.00	45.64	В	BBB
ATOM	4906	N	SER	В	137	-14.334	88.029	-7.047	1.00	46.09		BBB
ATOM	4907	CA			137	-13.208	87.217	-7.499		48.19		
ATOM	4908											BBB
		CB			137	-12.050	88.115	-7.933	1.00	48.12	В	BBB
MOTA	4909	OG	SER	В	137	-11.292	88.567	-6.817	1.00	45.96	В	BBB
ATOM	4910	С	SER	В	137	-12.692	86.281	-6.401	1.00	51.27		BBB
ATOM	4911	0			137	-11.990	85.302	-6.676		53.42		
ATOM												BBB
	4912	N			138	-13.028	86.592	-5.156	1.00	51.71	В	BBB
MOTA	4913	CA			138	-12.577	85.794	-4.029	1.00	51.89	В	BBB
ATOM	4914	CB	ILE	В	138	-13.026	86.439	-2.681	1.00	49.98	B	BBB
"ATOM	4915	CG2	ILE			-12.839	85.471	-1.531		49.45		BBB-
ATOM	4916		ILE									
						-12.239	87.731	-2.435		48.61		BBB
ATOM	4917		ILE			-10.737	87.604	-2.657	1.00	45.12	В	BBB
ATOM	4918	С	ILE	В	138	-13.053	84.347	-4.088	1.00	53.74	В	BBB
ATOM	4919	ο.	ILE	В	138	-14.207	84.070	-4.432	1.00	52.61	B	BBB
ATOM	4920	N			139	-12.128	83.440	-3.766		55.71		
ATOM	4921											BBB
		CA			139	-12.372	81.999	-3.710		57.08	В	BBB
ATOM	4922	CB	GLN	В	139	-11.147	81.221	-4.197	1.00	57.19	В	BBB
MOTA	4923	CG	GLN	В	139	-10.490	81.771	-5.453	1,00	56.56	В	BBB
MOTA	4924	CD	GT.N	R	139	-9.419	80.845	-5.992		56.64		BBB
ATOM	4925		GLN			-9.699	79.695	-6.351				
										55.35		BBB
ATOM	4926		GLN			-8.182	81.338	-6.051		54.43	В.	BBB
ATOM	4927	С	GLN	В	139	-12.560	81.734	-2.223	1.00	59.11	B	BBB
ATOM	4928	0	GLN	В	139	-11.594	81.749	-1.452	1.00	58.67		BBB
ATOM	4929	N			140	-13.798	81.504	-1.809		60.75		BBB
ATOM	4930											
		CA			140	-14.067	81.285	-0.400		62.57		BBB
ATOM	4931	CB	TRP	В	140	-15.514	81.667	-0.090	1.00	63.54	B	BBB
ATOM	4932	CG	TRP	В	140	-15.807	83.111	-0.360	1.00	64.18	B	BBB
ATOM	4933		TRP			-15.685	84.197	0.569		65.34		BBB
ATOM	4934											
		CE-2	TRP	_ B	140	-16.023	85.378	-0.125		65.23		BBB
ATOM	4935	CE3	TRP	В	140	-15.320	84.285	1.923	1.00	64.32	В	BBB
ATOM	4936	CD1	TRP	В	140	-16.204	83.661	-1.543		64.07		BBB
ATOM	4937		TRP			-16.337	85.022	-1.411				
ATOM										65.04		BBB
	4938	U42	TRP	Ħ	140	-16.009	86.637	0.488		64.12		BBB
ATOM	4939	CZ3	TRP	В	140	-15.307	85.532	2.529	1.00	63.40	В	BBB
ATOM	4940	CH2	TRP	В	140	-15.650	86.692	1.810		64.40		BBB
ATOM	4941	С			140							
						-13.781	79.872	0.088		63.61		BBB
ATOM	4942	0			140	-13.931	79.574	1.275		63.10		BBB
ATOM	4943	N	ARG	В	141	-13.352	79.010	-0.828	1.00	64.22	В	BBB
MOTA	4944	CA	ARG	В	141	-13.065	77.627	-0.488		64.16		BBB
MOTA	4945	CB			141	-12.958	76.792	-1.766		66.58		BBB
	•			ے		42.330	10.192	1.700	1.00	50.56		000

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ATOM	4946	CG	ARG	В	141	-13.015	75.290	-1.538	1.00 69.36	BBBB
ATOM	4947	CD	ARG			-12.947	74.520	-2.847	0.01 69.95	BBBB
ATOM	4948	NE	ARG			-14.090	74.803	-3.710	0.01 71.08	BBBB
ATOM		. CZ	ARG			-14.288	74.238	-4.896	0.01 71.57	BBBB
ATOM	4950		ARG			-13.417	73.355	-5.365	0.01 71.93	BBBB
ATOM	4951		ARG			-15.357	74.554	-5.614	0.01 71.93	BBBB
	4952	C	ARG			-11.786	77.507	0.336	1.00 63.56	BBBB
ATOM						-11.601	76.524	1.052	1.00 64.93	BBBB
MOTA	4953	0	ARG							BBBB
ATOM	4954	N	ASP			-10.919	78.514	0.237	1.00 61.53	
ATOM	4955	CA	ASP		142	-9.649	78.553	0.967	1.00 58.99	BBBB
MOTA	4956	CB	ASP	В	142	-8.586	79.256	0.101	1.00 58.24	BBBB
MOTA	4957	CG	ASP	В	142	-7.264	79.519	0.840	1.00 58.74	BBBB
ATOM	4958	OD1	ASP	В	142	-7.278	80.163	1.911	1.00 59.71	BBBB
ATOM	4959	OD2	ASP	В	142	-6.196	79.104	0.338	1.00 55.50	BBBB
ATOM	4960	С	ASP	В	142	-9.844	79.307	2.282	1.00 58.79	BBBB
ATOM	4961	0	ASP	В	142	-8.975	79.291	3.151	1.00 59.21	BBBB
MOTA	4962	N			143	-11.002	79.939	2.438	1.00 58.55	BBBB
ATOM	4963	CA			143	-11.290	80.734	3.629	1.00 59.40	BBBB
ATOM	4964	CB			143	-11.803	82.139	3.231	1.00 58.68	BBBB
			ILE			-12.217	82.919	4.469	1.00 58.34	BBBB
ATOM	4965							2.453	1.00 58.58	BBBB
ATOM	4966		ILE	_		-10.722	82.887			BBBB
ATOM	4967		ILE			-11.141	84.260	1.990	1.00 58.88	
MOTA	4968	С			143	-12.303	80.141	4.599	1.00 60.47	BBBB
ATOM	4969	0			143	-12.100	80.172	5.808	1.00 59.94	BBBB
ATOM	4970	И	VAL	В	144	-13.396	79.617	4.060	1.00 63.28	BBBB
ATOM	4971	CA	VAL	В	144	-14.470	79.056	4.864	1.00 66.68	BBBB
ATOM	4972	CB	VAL	В	144	-15.830	79.286	4.162	1.00 65.66	BBBB
ATOM	4973	CG1	VAL	В	144	-16.974	78.825	5.042	1.00 65.75	BBBB
ATOM	4974		VAL			-15.989	80.754	3.833	1.00 66.14	BBBB
ATOM	4975	C			144	-14.311	77.570	5.166	1.00 70.63	BBBB
ATOM	4976	Ö			144	-13.539	76.861	4.520	1.00 71.45	BBBB
ATOM	4977	N			145	-15.049	77.110	6.168	1.00 74.71	BBBB
					145	-15.027	75.716	6.564	1.00 79.26	BBBB
ATOM	4978	CA				-15.797	75.710	7.869	1.00 79.64	BBBB
ATOM	4979	CB			145				1.00 73.04	BBBB
MOTA	4980	OG			145	-15.866	74.164	8.227		
ATOM	4981	С			145	-15.680	74.895	5.466	1.00 82.78	BBBB
ATOM	4982	0			145	-16.727	75.273	4.938	1.00 83.31	BBBB
MOTA	4983	N	SER	В	146	-15.060	73.768	5.132	1.00 86.79	BBBB
ATOM	4984	CA	SER	В	146	-15.562	72.877	4.090	1.00 90.59	BBBB
ATOM	4985	CB	SER	В	146	-14.607	71.695	3.921	1.00 90.77	BBBB
ATOM	4986	OG	SER	В	146	-13.275	72.143	3.746	1.00 91.49	BBBB
MOTA	4987	С	SER	В	146	-16.970	72.355	4.386	1.00 92.92	BBBB
ATOM	4988	0			146	-17.554	71.635	3.577	1.00 93.10	BBBB
ATOM	4989	N			147	-17.511	72.720	5.544	1.00 95.33	BBBB
ATOM	4990	CA				-18-840	72.272	5.932	1.00 98.36	BBBB
		CB			147	-18.856	71.895	7.412	1.00 99.38	BBBB
ATOM	4991 4992				147	-17.835	70.831	7.753	1.00100.49	BBBB
ATOM		CG					70.421	8.931	1.00101.56	BBBB
ATOM	4993				147	-17.780				BBBB
ATOM	4994		ASP			-17.086	70.405	6.848	1.00101.00	
MOTA	4995	С			147	-19.901	73.331	5.683	1.00100.44	BBBB
MOTA	4996	0			147	-21.099	73.046	5.766	1.00100.78	BBBB
ATOM	4997	N	PHE	В	148	-19.466	74.550	5.381	1.00102.29	BBBB
ATOM	4998	CA	PHE	В	148	-20.404	75.638	5.142	1.00104.13	BBBB
ATOM	4999	CB	PHE	В	148	-20.186	76.762	6.162	1.00103.77	BBBB
ATOM	5000	CG	PHE	В	148	-20.294	76.315	7.597	1.00102.93	BBBB
MOTA	5001	CD1	PHE	В	148	-19.196	75.768	8.256	1.00102.74	BBBB
ATOM	5002				148	-21.493	76.447	8.292	1.00102.05	BBBB
ATOM	5003				148	-19.289	75.362	9.588	1.00102.16	BBBB
ATOM	5004				148	-21.595	76.044	9.622	1.00101.53	BBBB
	5005	CZ			148	-20.491	75.501	10.271	1.00101.14	BBBB
ATOM						-20.333	76.212	3.730	1.00105.35	BBBB
ATOM	5006	C			148			3.730	1.00105.31	BBBB
MOTA	5007	0			148	-21.093	77.116		1.00103.31	BBBB
ATOM	5008	N			149	-19.422	75.690	2.914		
ATOM	5009	CA			149	-19.280	76.163	1.539	1.00108.87	BBBB
MOTA	5010	CB			149	-18.225	75.335	0.797	1.00108.74	BBBB
MOTA	5011	CG			149	-16.762	75.591	1.173	1.00109.18	BBBB
ATOM	5012	CD1	LEU	JE	149	-15.864	74.549	0.525	1.00109.17	BBBB
ATOM	5013	CD2	LEU	JE	149	-16.363	76.995	0.734	1.00109.07	BBBB
ATOM	5014	C			149	-20.613	76.075	0.804	1.00110.12	BBBB
ATOM	5015	0			149	-20.925	76.913	-0.041	1.00109.68	BBBB
ATOM	5016	N			150	-21.395	75.053	1.138	1.00112.26	BBBB
ATOM	5017	CA			150	-22.698	74.845	0.516	1.00114.47	BBBB
ATOM	5018	CB			150	-23.034	73.350	0.484	1.00114.42	BBBB
ATOM	5019	OG			3 150	-23.034	72.790	1.786	1.00115.03	BBBB
							75.612	1.269	1.00115.71	BBBB
MOTA	5020	C	201		3 150	-23.784	, , , , , ,	1.203		

ATOM	5021	0	SER	В	150	-24.906	75.764	0.786	1.00116.46	BBBB
ATOM	5022	N	ASN							
						-23.443	76.092	2.459	1.00116.68	BBBB
MOTA	5023	CA	ASN	В	151	-24.379	76.856	3.271	1.00116.96	BBBB
ATOM	5024	CB	ASN	В	151	-23.991	76.740	4.748	1.00118.02	BBBB
ATOM	5025	CG	ASN	В	151	-25.184	76.831	5.676	1.00119.46	BBBB
ATOM	5026		ASN			-26.059				
							75.962	5.666	1.00120.20	BBBB
ATOM	5027	ND2	ASN	В	151	-25.228	77.885	6.486	1.00120.22	BBBB
ATOM	5028	С	ASN	В	151	-24.235	78.299	2.796	1.00116.67	BBBB
ATOM	5029	0	ASN	R	151	-25.007	79.183	3.166	1.00116.27	BBBB
ATOM	5030	N								
			MET			-23.230	78.501	1.951	1.00116.56	BBBB
ATOM	5031	CA	MET	В	152	-22.886	79.796	1.380	1.00116.72	BBBB
ATOM	5032	CB	MET	В	152	-21.659	79.626	0.486	1.00118.36	BBBB
ATOM	5033	CG	MET	R	152	-21.122	80.900	-0.128	1.00120.16	BBBB
ATOM	5034	SD	MET							
						-19.584	80.556	-0.998	1.00122.97	BBBB
ATOM	5035	CE	MET	В	152	-18.485	80.209	0.405	1.00121.57	BBBB
ATOM	5036	С	MET	В	152	-24.000	80.478	0.590	1.00115.97	BBBB
ATOM	5037	0	MET	В	152	-24.901	79.826	0.063	1.00116.12	BBBB
ATOM	5038									
		N			153	-23.913	81.803	0.514	1.00114.66	BBBB
MOTA	5039	CA	SER	В	153	-24.882	82.620	-0.208	1.00113.03	BBBB
MOTA	5040	CB	SER	В	153	-26.016	83.043	0.726	1.00112.30	BBBB
ATOM	5041	OG			153	-26.996	83.790	0.029		
ATOM									1.00111.51	BBBB
	5042	С			153	-24.176	83.856	-0.762	1.00112.42	BBBB
ATOM	5043	0	SER	В	153	-24.596	84.987	-0.520	1.00111.93	BBBB
ATOM	5044	N	MET	В	154	-23.094	83.625	-1.500	1.00112.10	BBBB
ATOM	5045	CA	MET	R	154	-22.310	84.700	-2.101	1.00111.52	
ATOM	5046									BBBB
		CB	MET			-21.048	84.127	-2.750	1.00112.13	BBBB
ATOM	5047	CG	MET	В	154	-21.321	83.219	-3.959	1.00113.26	BBBB
ATOM	5048	SD	MET	₿	154	-22.194	81.659	-3.586	1.00115.32	BBBB
ATOM	5049	CE	MET	R	1.54	-20.915	80.451	-3.905	1.00113.17	BBBB
ATOM	5050	C	MET							
						-23.127	85.431	-3.160	1.00110.94	BBBB
ATOM	5051	0	MET	₿	154	-24.208	84.983	-3.537	1.00110.87	BBBB
ATOM	5052	N	ASP	В	155	-22.596	86.551	-3.640	1.00110.28	BBBB
ATOM	5053	CA	ASP	В	155	-23.249	87.363	-4.667	1.00110.21	BBBB
ATOM	5054	CB			155	-24.745	87.515			
								-4.380	1.00110.88	BBBB
MOTA	5055	CG			155	-25.610	86.882	-5.456	1.00111.81	BBBB
ATOM	5056	OD1	ASP	В	155	-25.511	85.652	-5.659	1.00111.60	BBBB
ATOM	5057	OD2	ASP	В	155	-26.388	87.617	-6.101	1.00112.10	BBBB
ATOM	5058	C			155	-22.596	88.735			
								-4.699	1.00109.74	BBBB
ATOM	5059	0			155	-22.377	89.349	-3.655	1.00110.48	BBBB
MOTA	5060	N	PHE	В	156	-22.273	89.219	-5.894	1.00108.48	BBBB
ATOM	5061	CA	PHE	В	156	-21.621	90.517	-6.011	1.00107.02	BBBB
ATOM	5062	CB			156	-20.106	90.337	-5.881		
									1.00108.17	BBBB
ATOM	5063	CG			156	-19.714	89.230	-4.942	1.00109.50	BBBB
ATOM	5064	CD1	PHE	В	156	-19.812	87.899	-5.341	1.00110.20	BBBB
ATOM	5065	CD2	PHE	В	156	-19.325	89.509	-3.639	1.00109.92 -	BBBB -
ATOM	5066		PHE			-19.535	86.863	-4.454	1.00110.53	BBBB
ATOM	5067		PHE							
						-19.046	88.479	-2.745	1.00110.48	BBBB
ATOM	5068	CZ			156	-19.153	87.154	-3.154	1.00110.80	BBBB
ATOM	5069	C	PHE	В	156	-21.960	91.211	-7.325	1.00105.60	BBBB
ATOM	5070	0	PHE	В	156	-21.112	91.874	-7.928	1.00105.71	BBBB
ATOM	5071	N			157	-23.207	91.053	-7.762		
									1.00103.08	BBBB
ATOM	5072	CA			157	-23.679		-8.997	1.00100.31	BBBB
ATOM	5073	CB	GLN	В	157	-25.059	91.113	-9.340	1.00100.99	BBBB
ATOM	5074	CG	GLN	В	157	-25.028	89.611	-9.594	1.00101.56	BBBB
ATOM	5075	CD	GI.N	В	157	-26.395		-9.859	1.00101.74	BBBB
ATOM	5076		GLN							
						-27.111		-10.757	1.00101.92	BBBB
ATOM	5077	NE2	GLN			-26.764	88.015	-9.080	1.00101.91	BBBB
ATOM	5078	C	GLN	В	157	-23.716	93.184	-8.827	1.00 97.69	BBBB
ATOM	5079	0	GLN	В	157	-24.554	93.724	-8.106	1.00 97.57	BBBB
ATOM	5080	N			158	-22.796		-9.509	1.00 94.46	
										BBBB
ATOM	5081	CA			158	-22.657			1.00 91.18	BBBB
ATOM	5082	CB			158	-21.428		-8.570	1.00 91.04	BBBB
MOTA	5083	CG	ASN	В	158	-20.144	95.067	-9.182	1.00 90.57	BBBB
MOTA	5084	OD1	ASN			-19.046		-8.877	1.00 90.72	BBBB
ATOM	5085		ASN			-20.281				
								-10.042	1.00 89.01	BBBB
ATOM	5086	С			158	-22.500		-10.760	1.00 88.84	BBBB
ATOM	5087	0	ASN	В	158	-22.982	95.567	-11.792	1.00 88.90	BBBB
ATOM	5088	N			159	-21.818		-10.714	1.00 85.89	BBBB
ATOM	5089	CA			159	-21.524		-11.894	1.00 81.99	BBBB
ATOM	5090	CB			159	-21.607		-11.572	1.00 82.24	BBBB
ATOM	5091	CG	HIS	В	159	-21.122	100.345	-12.680	1.00 82.09	BBBB
ATOM	5092	CD2	HIS				100.119		1.00 82.10	BBBB
ATOM	5093		HIS				101.641		1.00 81.86	BBBB
ATOM	5094									
			HIS				102.174		1.00 82.63	BBBB
ATOM	5095	NEZ	HIS	B	123	-20.504	101.271	-14.571	1.00 82.42	BBBB

ATOM	5096	C	ите т	3 159	-20.091	07 636	-12.292	1.00 79.33	BBBB
		С							
ATOM	5097	O		3 159	-19.148	98.330	-11.903	1.00 77.67	BBBB
ATOM	5098	N	LEU I	3 160	-19.943	96.563	-13.062	1.00 76.42	BBBB
ATOM	5099	CA	TARIL R	3 160	-18.644	96.089	-13.520	1.00 73.22	BBBB
MOTA	5100	CB		3 160	-18.845		-14.666	1.00 73.70	BBBB
MOTA	5101	CG	LEU I	3 160	-19.569	93.818	-14.258	1.00 73.93	BBBB
ATOM	5102	CD1	LEU I	3 160	-20.094	93.089	-15.480	1.00 74.36	BBBB
ATOM	5103		LEU E		-18.609		-13.464	1.00 73.47	BBBB
ATOM	5104	С	LEU I	3 160	-17.696	97.195	-13.957	1.00 70.59	BBBB
ATOM	5105	0	LEH F	3 160	-16.484	97.090	-13.770	1.00 70.07	BBBB
ATOM	5106	N		3 161	-18.255		-14.529	1.00 68.54	BBBB
ATOM	5107	CA	GLY E	3 161	-17.445	99.363	-15.010	1.00 66.49	BBBB
ATOM	5108	C	GLY I	3 161	-16,729	100.202	-13.971	1.00 64.54	BBBB
ATOM	5109	Ō				100.722		1.00 64.54	BBBB
				3 161					
MOTA	5110	N	SER I	3 162	-17.323	100.333	-12.793	1.00 63.71	BBBB
ATOM	5111	CA	SER I	3 162	-16.744	101.132	-11.716	1.00 62.50	BBBB
ATOM	5112	CB		3 162		101.520		1.00 62.33	BBBB
ATOM	5113	OG	SER I	3 162	-18.518	100.353	-10.328	1.00 64.23	BBBB
ATOM	5114	C	SER I	3 162	-15.667	100.382	-10.961	1.00 60.98	BBBB
ATOM	5115	Õ		3 162		100.947		1.00 60.85	BBBB
ATOM	5116	N	CYS	3 163	-15.521	99.106	-11.288	1.00 59.83	BBBB
ATOM	5117	CA	CYS I	3 163	-14.554	98.241	-10.632	1.00 58.66	BBBB
ATOM	5118	С		3 163	-13.292		-11.444	1.00 59.15	BBBB
MOTA	5119	0	CYS	3 163	-13.364	97.543	-12.580	1.00 59.93	BBBB
MOTA	5120	CB	CYS !	3 163	-15.216	96.902	-10.326	1.00 57.17	BBBB
ATOM	5121	SG		3 163	-16.677	97.045	-9.251	1.00 55.89	BBBB
ATOM	5122	N	GLN I	3 164	-12.139	98.295	-10.851	1.00 59.35	BBBB
ATOM	5123	CA	GLN I	3 164	-10.848	98.087	-11.503	1.00 59.71	BBBB
ATOM	5124	СВ		3 164	-9.736		-10.682	1.00 58.27	BBBB
ATOM	5125	CG	GLN !	3 164	-9.729	100.262	-10.714	1.00 57.01	BBBB
ATOM	5126	CD	GLN I	3 164	-8.988	100.876	-9.530	1.00 57.67	BBBB
ATOM	5127	OF 1	GLN I	164	-9 573	101.088	-8.465	1.00 56.73	BBBB
ATOM	5128	NE2	GLN I	3 164		101.153	-9.707	1.00 56.75	BBBB
ATOM	5129	C	GLN 1	3 164	-10.529	96.593	-11.664	1.00 61.24	BBBB
ATOM	5130	0	GI.N I	3 164	-11.181	95 734	-11.064	1.00 60.96	BBBB
ATOM	5131	N		3 165	-9.532		-12.493	1.00 63.38	BBBB
ATOM	5132	CA	LYS I	3 165	-9.106	94.910	-12.709	1.00 64.89	BBBB
ATOM	5133	СВ	TYS I	3 <b>165</b>	-8.288	94.776	-13.997	1.00 65.32	BBBB
ATOM	5134	CG		3 165	-9.071		-15.298	1.00 66.27	BBBB
ATOM	5135	CD	LYS I	3 165	-8.150	94.584	-16.481	1.00 65.77	BBBB
ATOM	5136	CE	LYS I	3 165	-8.851	94.777	-17.806	1.00 65.83	BBBB
		NZ						1.00 65.95	BBBB
ATOM	5137			3 165	-10.105		-17.858		
ATOM	5138	С	LYS I	3 165	-8.226	94.506	-11.530	1.00 65.87	BBBB
ATOM	5139	0	LYS I	3 165	-7.447	95.318	-11.025	1.00 65.70	BBBB
ATOM	5140		CYS"		-8.344		-11.101	1.00 66.39	BBBB
ATOM	5141	CA	CYS	3 166	-7.551	92.772	-9.983	1.00 67.92	BBBB
ATOM	5142	С	CYS I	3 166	-6.088	93.181	-10.082	1.00 69.45	BBBB
ATOM	5143	0	CVC	3 166	-5.673	94.216	-9.555	1.00 71.07	BBBB
ATOM	5144	CB	CYS	3 166		91.253	-9.881	1.00 66.22	BBBB
ATOM	5145	SG	CYS 1	3 166	-9.002	90.761	-8.753	1.00 66.31	BBBB
ATOM	5146	N	ASP	3 167	-5.311	92 352	-10.757	1.00 69.98	BBBB
								1.00 70.69	
ATOM	5147	CA		3 167	-3.896		-10.956		BBBB
MOTA	5148	CB	ASP I	3 167	-3.176	92.829	-9.628	1.00 68.80	BEBB
ATOM	5149	CG	ASP I	3 167	-1.682	93.042	-9.806	1.00 68.71	BBBB
ATOM	5150		ASP I		-1.239		-10.019	1.00 65.57	BBBB
ATOM	5151	OD2	ASP 1	3 167	-0.949	92.035	-9.751	1.00 69.41	BBBB
ATOM	5152	С	ASP I	3 167	-3.362	91.347	-11.621	1.00 72.58	BBBB
ATOM	5153				-3.899		-11.431	1.00 72.47	BBBB
		0		3 167					
ATOM	5154	N	PRO 1	3 168	-2.309	91.493	-12.430	1.00 73.71	BBBB
ATOM	5155	CD	PRO I	3 168	-1.620	92.737	-12.817	1.00 73.48	BBBB
ATOM	5156	CA		3 168	-1.732		-13.114	1.00 74.58	BBBB
MOTA .	5157	СВ		3 168	-0.534		-13.841	1.00 75.54	BBBB
ATOM	5158	CG	PRO I	3 168	-0.992	92.357	-14.118	1.00 74.60	BBBB
ATOM	5159	С		3 168	-1.323		-12.155	1.00 74.88	BBBB
ATOM	5160	0		3 168	-1.697		-12.346	1.00 74.50	BBBB
ATOM	5161	N	SER I	3 169	~0.575	89.569	-11.115	1.00 73.58	BBBB
ATOM	5162	CA		3 169	-0.081		-10.149	1.00 73.22	BBBB
ATOM	5163	CB		3 169	1.108	89.195	-9.391	1.00 73.74	BBBB
MOTA	5164	OG	SER I	3 169	0.738	90.378	-8.707	1.00 73.29	BBBB
MOTA	5165	С		3 169	-1.085	88.045	-9.142	1.00 72.62	BBBB
MOTA	5166	0		3 169	-0.693	87.640	-8.046	1.00 74.56	BBBB
MOTA	5167	N	CYS	3 170	-2.365	88.007	-9.496	1.00 70.56	BBBB
ATOM	5168	CA		3 <b>1</b> 70	-3.361	87.484	-8.566	1.00 70.18	BBBB
									BBBB
ATOM	5169	С		3 170	-3.776	86.061	-8.896	1.00 71.85	
MOTA	5170	0	CYS	B 170	-4.064	85.732	-10.041	1.00 71.70	BBBB

ATOM	5171	CB	CYS E	170	-4.620	88.348	-8.546	1.00 66.51	BBBB
ATOM	5172	SG	CYS E		-4.616	89.887	-7.567	1.00 63.03	BBBB
ATOM	5173	И	PRO E	3 171	-3.817	85.194	-7.881	1.00 73.64	BBBB
ATOM	5174	CD	PRO E	3 171	-3.238	85.374	-6.538	1.00 74.04	BBBB
ATOM	5175	CA	PRO E						
					-4.211	83.801	-8.096	1.00 74.95	BBBB
ATOM	5176	CB	PRO E	3 171	-4.039	83.181	-6.712	1.00 75.59	BBBB
ATOM	5177	CG	PRO E	3 171	-2.872	83.956	-6.164	1.00 75.44	BBBB
ATOM	5178	C	PRO E						
					-5.637	83.684	-8.615	1.00 75.10	BBBB
ATOM	5179	0	PRO E	3 171	-6.597	83.857	-7.863	1.00 74.06	BBBB
ATOM	5180	N	ASN E	3 172	-5.758	83.386	-9.905	1.00 76.34	BBBB
ATOM	5181	CA	ASN E		-7.055				
							-10.558	1.00 78.94	BBBB
ATOM	5182	CB	ASN E	3 172	-7.868	82.132	-9.880	1.00 83.79	BBBB
ATOM	5183	CG	ASN E	3 172	-7.029	80.932	-9.527	1.00 89.66	BBBB
ATOM	5184		ASN E						
					-6.202	80.993	-8.616	1.00 91.12	BBBB
ATOM	5185	ND2	ASN E	3 172	-7.221	79.836	-10.253	1.00 94.21	BBBB
MOTA	5186	С	ASN E	172	-7.850	84.530	-10.525	1.00 77.82	BBBB
ATOM	5187	Ō	ASN E						
					~9.057		-10.272	1.00 77.75	BBBB
ATOM	5188	N	GLY E	3 173	-7.167	85.641	-10.785	1.00 76.34	BBBB
ATOM	5189	CA	GLY E	173	-7.834	86 928	-10.774	1.00 73.69	BBBB
ATOM	5190								
		С	GLY E		-8.642	87.116	-9.506	1.00 71.86	BBBB
ATOM	5191	0	GLY E	3 173	-9.793	87.546	-9.554	1.00 71.57	BBBB
ATOM	5192	N	SER E	3 174	-8.037	86.776	-8.370	1.00 69.87	BBBB
ATOM	5193	CA	SER E		-8.686	86.919	-7.071	1.00 66.85	BBBB
ATOM	5194	ÇB	SER E	3 174	-8.626	85.604	-6.300	1.00 66.91	BBBB
ATOM	5195	OG	SER E	174	-9.423	84.621	-6.927	1.00 67.71	BBBB
ATOM	5196	С	SER E		-8.002	88.021	-6.270	1.00 64.54	BBBB
ATOM	5197	0	SER E	3 174	-6.805	87.959	-5.995	1.00 64.78	BBBB
ATOM	5198	N	CYS E	175	-8.767	89.038	-5.901	1.00 61.79	BBBB
MOTA	5199	CA	CYS E		-8.214	90.148	-5.147	1.00 59.20	BBBB
ATOM	5200	С	CYS E	3 175	-9.345	90.850	-4.409	1.00 57.30	BBBB
ATOM	5201	0	CYS E	175	-10.495	90.792	-4.840	1.00 57.20	BBBB
MOTA	5202	CB	CYS E		-7.526	91.121	-6.103	1.00 61.28	BBBB
ATOM	5203	SG	CYS E	3 175	-8.681	92.016	-7.188	1.00 61.48	BBBB
ATOM	5204	N	TRP E	176	-9.028	91.505	-3.298	1.00 54.56	BBBB
ATOM	5205	CA	TRP E		-10.052	92.208	-2.539	1.00 52.53	BBBB
ATOM	5206	CB	TRP E	3 176	-9.745	92.174	-1.044	1.00 50.20	BBBB
ATOM	5207	CG	TRP E	176	-9.858	90.826	-0.455	1.00 46.74	BBBB
MOTA	5208	CD2			-11.046	90.218	0.054	1.00 44.30	BBBB
ATOM	5209	CE2	TRP F	3 176	<b>-1</b> 0.697	88.924	0.492	1.00 45.71	BBBB
ATOM	5210	CE3	TRP F	3 176	-12.372	90.638	0.183	1.00 41.91	BBBB
ATOM	5211		TRP F						
					-8.860	89.906	-0.311	1.00 45.66	BBBB
ATOM	5212	NE1	TRP F	3 176	-9.355	88.760	0.257	1.00 45.18	BBBB
MOTA	5213	CZ2	TRP E	3 176	-11.634	88.044	1.055	1.00 45.11	BBBB
MOTA	5214		TRP E		-13.303	89.765	0.740	1.00 41.79	
									BBBB
MOTA	5215	CH2	TRP E	3 176	-12.928	88.484	1.169	1.00 42.58	BBBB
MOTA	5216	С	TRP E	3 176	-10.134	93.648	-2.993	1.00 53.37	BBBB
MOTA	5217	0		3 176	-11.089	94:361	-2.672		
								1.00 52.95	BBBB
ATOM	5218	N	GLY F	3 177	-9.121	94.073	-3.738	1.00 53.13	BBBB
ATOM	5219	CA	GLY E	3 177	-9.095	95.431	-4.227	1.00 54.80	BBBB
MOTA	5220	С	GLY E		-8.099	95.581	-5.352	1.00 55.77	
									BBBB
MOTA	5221	0	GLY F	3 T 1 1	-7.665	94.591	-5.943	1.00 58.20	BBBB
MOTA	5222	N	ALA I	3 178	-7.727	96.819	-5.646	1.00 54.65	BBBB
ATOM	5223	CA		3 178	-6.782	97.078	-6.710	1.00 55.63	BBBB
ATOM									
	5224	CB	ALA I		-6.981	98.490	-7.245	1.00 53.85	BBBB
MOTA	5225	C	ALA I	3 178	-5.372	96.909	-6.172	1.00 56.82	BBBB
ATOM	5226	0	AT.A	3 178	-5.142	97.061	-4.975	1.00 57.25	BBBB
MOTA	5227	N		3 179	-4.434	96.586	-7.057	1.00 57.80	BBBB
ATOM	5228	CA	GLY I	B 179	-3.052	96.423	-6.644	1.00 59.34	BBBB
ATOM	5229	С	GLY I	B 179	-2.702	95.021	-6.190	1.00 61.36	BBBB
ATOM	5230	ō		B 179	-3.587				
						94.227	-5.875	1.00 60.44	BBBB
ATOM	5231	N	GLU I	B 180	-1.402	94.725	-6.166	1.00 63.78	BBBB
ATOM	5232	CA	GLU I	B 180	-0.885	93.421	-5.748	1.00 65.34	BBBB
ATOM	5233			B 180					
		CB			0.643	93.381	-5.903	1.00 67.80	BBBB
ATOM	5234	CG		B 180	1.154	93.162	-7.326	1.00 72.35	BBBB
ATOM	5235	CD	GLU F	B 180	2.670	92.911	-7.387	1.00 75.42	BBBB
ATOM	5236		GLU I						
					3.147	91.983	-6.688	1.00 75.53	BBBB
ATOM	5237	OE2	GLU I	B 180	3.379	93.635	-8.136	1.00 75.00	BBBB
ATOM	5238	С	GLU I	B 180	-1.242	93.100	-4.294	1.00 64.75	BBBB
ATOM	5239	ō							
				B 180	-1.814	92.041	-3.991	1.00 63.06	BBBB
MOTA	5240	N		B 181	-0.896	94.030	-3.407	1.00 63.84	BBBB
ATOM	5241	CA	GLU I	B 181	-1.138	93.893	-1.976	1.00 63.45	BBBB
ATOM	5242	CB		B 181	-0.890	95.219	-1.283	1.00 64.77	BBBB
ATOM	5243	CG	GLU I	B 181	-1.660	96.362	-1.883	1.00 70.67	BBBB
ATOM	5244	CD	GLU 1	B 181	-1.490	97.626	-1.076	1.00 74.52	BBBB
ATOM	5245								
VI OM	J243	OFT	GLU I	- TOT	-0.323	97.999	-0.815	1.00 77.04	BBBB

ATOM	5246	OE2	GLU	В	181		-2.513	98.241	-0.698	1.00 76	5.54	BBBB
ATOM'	5247	C	GLU				-2.518	93.399	-1.588	1.00 62	2.28	BBBB
ATOM	5248	Ō	GLU				-2.752	93.085	-0.417	1.00 62	2.84	BBBB
ATOM	5249	N	ASN				-3.428	93.332	-2.557	1.00 59	9.34	BBBB
ATOM	5250	CA	ASN				-4.781	92.877	-2.287	1.00 55	5.78	BBBB
ATOM	5251	CB	ASN				-5.795	93.970	-2.613	1.00 55		BBBB
ATOM	5252	CG	ASN				-5.778	95.087	-1.600	1.00 56		BBBB
ATOM	5253		ASN		182		-5.991	94.858	-0.408	1.00 55		BBBB
ATOM	5254		ASN				-5.522	96.307	-2.063	1.00 57		BBBB
							-5.157	91.609	-3.015	1.00 54		BBBB
ATOM	5255	C	ASN							1.00 5		BBBB
ATOM	5256	0	ASN				-6.340	91.272	-3.099			
ATOM	5257	N	CYS				-4.163	90.912	-3.557	1.00 53		BBBB
ATOM	5258	CA	CYS				-4.434	89.649	-4.237	1.00 54		BBBB
ATOM	5259	С	CYS				-4.840	88.639	-3.148	1.00 53		BBBB
ATOM	5260	0	CYS				-4.294	88.665	-2.034	1.00 52		BBBB
ATOM	5261	CB	CYS				-3.184	89.161	-4.990	1.00 5		BBBB
ATOM	5262	SG	CYS				-2.837	90.009	-6.575	1.00 60		BBBB
MOTA	5263	N	GĻN				-5.800	87.767	-3.448	1.00 50		BBBB
ATOM	5264	CA	GLN	В	184		-6.246	86.793	-2.457	1.00 49		BBBB
ATOM	5265	CB	GLN	В	184		-7.450	86.018	-2.971	1.00 45		BBBB
ATOM	5266	CG	GLN	В	184		-7.836	84.886	-2.061	1.00 4	4.19	BBBB
ATOM	5267	CD	GLN	В	184		-9.193	84.300	-2.382	1.00 4	6.25	BBBB
ATOM	5268	OE1	GLN	В	184		-9.613	84.264	-3.541	1.00 40	6.43	BBBB
ATOM	5269	NE2	GLN	В	184		-9.881	83.813	-1.354	1.00 4	4.95	. BBBB
ATOM	5270	С	GLN	В	184		-5.167	85.803	-2.032	1.00 5	1.51	BBBB
ATOM	5271	0	GLN				-4.980	84.777	-2.670	1.00 5	2.63	BBBB
ATOM	5272	N	LYS				-4.465	86.115	-0.945	1.00 5	3.76	BBBB
ATOM	5273	CA	LYS				-3.405	85.258	-0.414	1.00 5	4.66	BBBB
ATOM	5274	CB			185		-2.796	85.922	0.821	1.00 5		BBBB
ATOM	5275	CG			185		-2.802	87.439	0.713	1.00 5		BBBB
ATOM	5276	CD			185		-2.363	88.156	1.987	1.00 5		BBBB
	5277	CE			185		-0.860	88.112	2.161	1.00 5		BBBB
ATOM								89.016	3.254	1.00 5		BBBB
ATOM	5278	NZ			185		-0.424		-0.038	1.00 5		BBBB
ATOM	5279	C			185		-3.995	83.898				BBBB
ATOM	5280		LYS				-4.836	83.813	0.851	1.00 5		
ATOM	5281	N			186		-3.553	82.839	-0.716	1.00 5		BBBB
MOTA	5282	CA			186		-4.061	81.489	-0.455	1.00 5		BBBB
MOTA	5283	CB			186		-4.201	80.729	-1.774	1.00 5		BBBB
MOTA	5284	CG			186		-5.167	81.340	-2.797	1.00 5		BBBB
ATOM	5285		LEU				-5.042	80.603	-4.123	1.00 5		BBBB
ATOM	5286		LEU				-6.599	81.272	-2.269	1.00 5		BBBB
ATOM	5287	C			186		-3.194	80.677	0.515	1.00 5		BBBB
MOTA	5288	0			186		-1.961	80.762	0.482	1.00 5		BBBB
ATOM	5289	N			187		-3.845	79.893	1.375	1.00 5		BBBB
ATOM	5290	CA	THR				-3.132	79.068	2.356	1.00 5		BBBB
ATOM	5291	CB			187		-2.950	79.799	3.710	1.00 5		BBBB
ATOM	5292		THR				-4.237	80.065	4.287	1.00 4		BBBB
MOTA	5293		THR				-2.179	81.095	3.533	1.00 4		BBBB
ATOM	5294	С	THR	В	187		-3.812	77.730	2.665			BBBB
MOTA	5295	0			187		-3.455	77.078	3.638	1.00 5		BBBB
MOTA	5296	N	LYS	В	188		-4.789	77.323	1.859	1.00 5	5.34	BBBB
ATOM	5297	CA	LYS	В	188		-5.475	76.049	2.085	1.00 5	7.04	BBBB
MOTA	5298	CB	LYS	В	188		-6.857	76.288	2.689	1.00 5		BBBB
MOTA	5299	CG	LYS	В	188		-7.608	75.011	2.984	1.00 5		BBBB
MOTA	5300	CD	LYS	В	188		-8.883	75.265	3.757	1.00 5	3.87	BBBB
ATOM	5301	CE	LYS	В	188		-9.352	73.992	4.452	1.00 5	5.59	BBBB
MOTA	5302	NZ	LYS	В	188		-10.452	74.213	5.446	1.00 5	4.67	BBBB
ATOM	5303	С	LYS	В	188		-5.620	75.200	0.812	1.00 6	0.26	BBBB
ATOM	5304	0			188		-5.084	74.091	0.725	1.00 6	1.19	BBBB
ATOM	5305	N			189		-6.342	75.726	-0.171	1.00 6	2.83	BBBB
ATOM	5306	CA			189		-6.569	75.021	-1.427	1.00 6	5.12	BBBB
ATOM	5307	СВ			189		-7.563	75.808	-2.327	1.00 6	6.07	BBBB
ATOM	5308		ILE				-7.802	75.051	-3.629	1.00 6		BBBB
ATOM	5309		ILE				-8.903	75.989	-1.610	1.00 6		BBBB
ATOM	5310		ILE				-9.716	74.708	-1.460	1.00 6		BBBB
ATOM	5311	CDI			189		-5.290	74.734	-2.235	1.00 6		BBBB
							-5.278	73.838	-3.079	1.00 6		BBBB
MOTA	5312	0			189				-1.986	1.00 6		BBBB
MOTA	5313	N			190		-4.218	75.481	-2.726	1.00 6		BBBB
MOTA	5314	CA			190		-2.973	75.268		1.00 6		BBBB
ATOM	5315	CB			190		-2.254	76.595	-3.042	1.00 6		BBBB
MOTA	5316				190		-3.182	77.524	-3.794			BBBB
ATOM	5317				190		-1.754	77.235	-1.740	1.00 6		BBBB
MOTA	5318	-			190		-0.634			1.00 6		
ATOM	5319	С			190	•	-1.979		-1.947			BBBB
MOTA	5320	0	ILE	В	190		-0.784	74.403	-2.260	1.00 7	V. 0Z	BBBB

ATOM	5321	N	CYS	В	191	-2.464	73.696	-0.943	1.00 69.76	BBBB
ATOM	5322	CA			191	-1.581	72.892			
ATOM	5323	C						-0.112	1.00 69.84	BBBB
					191	-1.097	71.575	-0.699	1.00 71.86	BBBB
ATOM	5324	0			191	-1.800	70.928	-1.475	1.00 72.19	BBBB
MOTA	5325	CB	CYS	В	191	-2.246	72.662	1.239	1.00 66.69	BBBB
ATOM	5326	SG	CYS	В	191	-2.546	74.245	2.079	1.00 60.81	
ATOM	5327	N			192					BBBB
						0.119	71.193	-0.315	1.00 73.83	BBBB
ATOM	5328	CA			192	0.739	69.960	-0.789	1.00 77.08	BBBB
ATOM	5329	CB			192	2.228	69.978	-0.458	1.00 76.70	BBBB
ATOM	5330	C	ALA	В	192	0.087	68.694	-0.225	1.00 78.75	BBBB
ATOM	5331	0			192	0.601	68.090	0.714	1.00 79.97	
MOTA	5332	N			193					BBBB
ATOM	5333					-1.044	68.312	-0.815	1.00 80.29	BBBB
		CA			193	-1.825	67.126	-0.448	1.00 81.69	BBBB
ATOM	5334	CB			193	-1.667	66.065	-1.542	1.00 83.02	BBBB
MOTA	5335	CG	GLN	В	193	-2.320	64.729	-1.220	1.00 85.81	BBBB
ATOM	5336	CD	GLN	В	193	-2.222	63.737	-2.368	1.00 87.31	
ATOM	5337		GLN		193	-2.477	62.544	-2.195		BBBB
ATOM	5338				193				1.00 87.40	BBBB
						-1.859	64.228	-3.551	1.00 88.28	BBBB
ATOM	5339	С			193	-1.621	66.461	0.922	1.00 81.96	BBBB
ATOM	5340	0	GLN	В	193	-2.560	66.365	1.715	1.00 82.69	BBBB
MOTA	5341	N	GLN	В	194	-0.410	65.987	1.192	1.00 81.39	BBBB
ATOM	5342	CA			194	-0.120	65.310	2.452		
ATOM	5343	СВ			194				1.00 81.20	BBBB
						1.286	64.702	2.404	1.00 83.56	BBBB
ATOM	5344	CG			194	2.359	65.626	1.854	1.00 86.44	BBBB
ATOM	5345	CD			194	3.673	65.487	2.597	1.00 88.04	BBBB
MOTA	5346	OE1	GLN	В	194	4.159	64.377	2.819	1.00 89.12	BBBB
ATOM	5347		GLN			4.259	66.617	2.986		
ATOM	5348	C							1.00 88.90	BBBB
					194	-0.274	66.127	3.737	1.00 79.78	BBBB
ATOM	5349	0			194	-0.063	65.602	4.834	1.00 81.00	BBBB
MOTA	5350	N	CYS	В	195	-0.638	67.399	3.617	1.00 77.49	BBBB
ATOM	5351	CA	CYS	В	195	-0.812	68.248	4.795	1.00 74.25	BBBB
ATOM	5352	С			195	-2.241	68.093	5.317		
ATOM	5353	ŏ			195				1.00 73.43	BBBB
						-3.129	67.689	4.570	1.00 73.47	BBBB
MOTA	5354	CB			195	-0.540	69.702	4.427	1.00 72.64	BBBB
ATOM	5355	SG	CYS	В	195	1.047	69.999	3.580	1.00 68.87	BBBB
ATOM	5356	N	SER	В	196	-2.469	68.413	6.590	1.00 72.91	BBBB
ATOM	5357	CA	SER		196	-3.808	68.270	7.178	1.00 71.99	
ATOM	5358	CB	SER		196					BBBB
ATOM						-3.723	67.592	8.550	1.00 71.63	BBBB
	5359	OG	SER		196	-3.256	68.494	9.539	1.00 72.43	BBBB
MOTA	5360	C	SER	В	196	-4.594	69.577	7.330	1.00 70.72	BBBB
ATOM	5361	0	SER	В	196	-5.800	69.556	7.593	1.00 69.78	BBBB
ATOM	5362	N	GLY	В	197	-3.915	70.708	7.176	1.00 68.99	BBBB
ATOM	5363	CA			197	-4.587	71.986			
ATOM	5364	C.			197			7.304	1.00 68.35	BBBB
						-3.849	73.066	6.547	1.00 68.01	BBBB
ATOM	5365	0	GLY	В	197	-2.982	72.768	5.728	1.00 68.47	BBBB
ATOM	5366	N	ARG	В	198	-4.186	74.320	6.824	1.00 67.24	BBBB
ATOM	5367	CA	ARG	В	198	-3.553	75.454	6.161	1.00 65.80	BBBB
ATOM	5368	CB	ARG			-3.750	76.722	6.993		
ATOM	5369	CG	ARG						1.00 65.04	BBBB
						-5.187	77.216	7.087	1.00 64.08	BBBB
MOTA	5370	CD			198	-5.631	77.874	5.791	1.00 64.70	BBBB
MOTA	5371	NE	ARG	₿	198	-6.937	78.515	5.900	1.00 61.44	BBBB
ATOM	5372	CZ	ARG	В	198	-8.055	77.877	6.220	1.00 60.87	BBBB
ATOM	5373	NH1	ARG			-8.030	76.576	6.468	1.00 62.42	BBBB
ATOM	5374		ARG			-9.200				
ATOM	5375	C	ARG				78.538	6.293	1.00 60.41	BBBB
						-2.062	75.226	5.939	1.00 66.11	BBBB
ATOM	5376	0	ARG			-1.419	74.489	6.675	1.00 65.99	BBBB
MOTA	5377	И			199	-1.523	75.857	4.904	1.00 66.59	BBBB
ATOM	5378	CA			199	-0.108	75.755	4.585	1.00 65.79	BBBB
ATOM	5379	С			199	0.382	77.154	4.251	1.00 67.37	BBBB
MOTA	5380	0			199	-0.388	78.112			
ATOM	5381	CB			199			4.309	1.00 67.24	BBBB
						0.116	74.816	3.395	1.00 64.09	BBBB
ATOM	5382	SG			199	-0.794	75.247	1.883	1.00 56.95	BBBB
MOTA	5383	N	ARG	В	200	1.658	77.275	3.906	1.00 68.25	BBBB
MOTA	5384	CA	ARG	В	200	2.231	78.570	3.580	1.00 70.62	BBBB
ATOM	5385	CB	ARG			3.324	78.924	4.586		
ATOM	5386	CG	ARG						1.00 71.23	BBBB
						4.445	77.909	4.622	1.00 74.92	BBBB
ATOM	5387	CD	ARG			5.479	78.220	5.677	1.00 78.40	BBBB
ATOM	5388	NE	ARG	В	200	6.080	79.533	5.488	1.00 81.26	BBBB
ATOM	5389	CZ	ARG	В	200	7.121	79.977	6.183	1.00 82.96	BBBB
ATOM	5390	NH1				7.674	79.202	7.110	1.00 83.76	BBBB
ATOM	5391	NH2								
ATOM						7.603	81.196	5.959	1.00 82.89	BBBB
	5392	С	ARG			2.818	78.526	2.181	1.00 72.45	BBBB
ATOM	5393	0	ARG			3.609	79.390	1.801	1.00 72.80	BBBB
ATOM	5394	N	GLY	В	201	2.428	77.512	1.416	1.00 74.24	BBBB
ATOM	5395	CA	GLY			2.937	77.381	0.065	1.00 77.11	
				_		4.501	11.301	0.005	1.00 //.11	BBBB

ATOM	5396	С	GT.Y	В	201	2.439	76.130	-0.627	1.00	79.54	BBBB
ATOM	5397	ō			201	1.587	75.412	-0.096		79.87	BBBB
					202						BBBB
ATOM	5398	N		_		2.974	75.867	-1.817		81.31	
ATOM	5399	CA			202	2.583	74.699	-2.597		82.59	BBBB
ATOM	5400	CB	SER	В	202	2.659	75.023	-4.091	1.00	83.79	BBBB
ATOM	5401	OG	SER	В	202	1.843	76.140	-4.409	1.00	85.38	BBBB
ATOM	5402	С	SER	В	202	3.463	73.490	-2.281	1.00	82.50	BBBB
ATOM	5403	Ō			202	3.059	72.347	-2.497		82.11	BBBB
ATOM	5404				203						
		N				4.656	73.746	-1.755		82.48	BBBB
ATOM	5405	CA			203	5.593	72.680	-1.410		83.92	BBBB
ATOM	5406	CB.	SER	В	203	6.980	73.280	-1.188	1.00	83.69	BBBB
ATOM	5407	OG	SER	В	203	6.884	74.458	-0.413	1.00	84.12	BBBB
ATOM	5408	С	SER	В	203	5.182	71.865	-0.179	1.00	84.69	BBBB
ATOM	5409	0			203	4.386	72.321	0.642		85.38	BBBB
ATOM	5410				204					85.35	
		И				5.714	70.634	-0.048			BBBB
ATOM	5411	CD	PRO			6.380	69.892	-1.130		85.59	BBBB
ATOM	5412	CA			204	5.420	69.735	1.078	1.00	85.26	BBBB
ATOM	5413	CB	PRO	В	204	5.892	68.369	0.573	1.00	85.35	BBBB
ATOM	5414	CG	PRO	В	204	5.838	68.504	-0.924	1.00	85.97	BBBB
ATOM	5415	С	PRO	В	204	6.156	70.145	2.352	1.00	84.90	BBBB
ATOM	5416	ō			204	5.819	69.699	3.451		85.25	BBBB
ATOM	5417	N			205	7.170	70.989	2.195		83.82	BBBB
ATOM	5418	CA			205	7.954	71.461	3.329		82.49	BBBB
ATOM	5419	CB	SER	В	205	9.370	71.804	2.87 <b>7</b>	1.00	81.53	BBBB
ATOM	5420	OG	SER	В	205	9.834	70.867	1.927	1.00	82.91	BBBB
MOTA	5421	С	SER	В	205	7.302	72.721	3.859		81.72	BBBB
ATOM	5422	ō			205	7.589	73.179	4.965		81.71	BBBB
MOTA	5423	И			206	6.405	73.266	3.050		80.88	BBBB
MOTA	5424	CA			206	5.739	74.510	3.378	1.00	79.42	. BBBB
ATOM	5425	CB	ASP	В	206	5.665	75.383	2.120	1.00	80.43	BBBB
ATOM	5426	CG	ASP	В	206	6.998	76.019	1.778	1.00	82.78	BBBB
ATOM	5427	OD1	ASP	B	206	7.996	75.277	1.624	1.00	83.77	BBBB
ATOM	5428		ASP			7.052	77.262	1.665		84.24	BBBB
ATOM	5429	С			206	4.375	74.474	4.039		77.27	BBBB
MOTA	5430	0			206	3.571	75.371	3.809		78.30	BBBB
ATOM	5431	N	CYS	В	207	4.065	73.470	4.845	1.00	73.87	BBBB
ATOM	5432	CA	CYS	В	207	2.763	73.567	5.461	1.00	70.85	BBBB
ATOM	5433	С	CYS	В	207	2.740	73.687	6.966	1.00	69.49	BBBB.
MOTA	5434	0	CYS			3.682	73.315	7.665		69.22	BBBB
ATOM	5435	CB	CYS		207	1.802	72.490	4.970		70.63	BBBB
ATOM	5436	SG	CYS			2.256	70.748	5.026		67.08	BBBB
MOTA	5437	N	CYS	В	208	1.637	74.251	7.439	1.00	67.32	BBBB
ATOM	5438	CA	CYS	В	208	1.418	74.548	8.843	1.00	65.11	BBBB
ATOM	5439	С	CYS	В	208	1.077	73.423	9.792	1.00	64.18	BBBB
ATOM	5440 ·	-0			208-	-0.484	72.407	97412"		62.88	BBBB
ATOM	5441	СВ	CYS			0.326	75.610	8.966		64.00	BBBB
ATOM	5442	SG	CYS			0.558	77.027	7.861		61.78	BBBB
MOTA	5443	N	HIS			1.444	73.658	11.050		62.79	BBBB
ATOM	5444	CA	HIS			1.180	72.734	12.132		61.21	BBBB
ATOM	5445	CB	HIS	В	209	1.642	73.343	13.455	1.00	62.12	BBBB
ATOM	5446	CG	HIS			1.420	72.458	14.641	1.00	63.73	BBBB
ATOM	5447		HIS			2.298	71.815	15.449		62.90	BBBB
ATOM	5448		HIS			0.163	72.157	15.121		63.04	BBBB
			HIS			0.277	71.368	16.175		62.69	BBBB
ATOM	5449										
MOTA	5450		HIS			1.561	71.146	16.395		61.99	BBBB
MOTA	5451	С	HIS	В	209	-0.319	72.511	12.146		60.28	BBBB
ATOM	5452	0	HIS	В	209	-1.088	73.367	11.714	1.00	61.56	BBBB
ATOM	5453	N	ASN	В	210	-0.731	71.353	12.630	1.00	58.94	BBBB
ATOM	5454	CA	ASN			-2.138	71.010	12.683		57.03	BBBB
ATOM	5455	СВ	ASN			-2.299	69.678	13.401		58.12	BBBB
ATOM	5456	CG	ASN			-3.741	69.371	13.722		59.45	BBBB
ATOM	5457		ASN			-4.552	69.106	12.828		59.46	BBBB
ATOM	5458	ND2	ASN	В	210	-4.077	69.420	15.005	1.00	59.85	BBBB
ATOM	5459	С	ASN	В	210	-3.018	72.047	13.374	1.00	55.24	BBBB
ATOM	5460	0	ASN			-4.188	72.210	13.032		54.32	BBBB
ATOM	5461	N	GLN			-2.448	72.747	14.346	1.00		BBBB
											BBBB
ATOM	5462	CA	GLN			-3.194	73.723	15.132	1.00		
ATOM	5463	CB	GLN			-2.621	73.761	16.552	1.00		BBBB
ATOM	5464	CG	GLN			-2.835	72.495	17.332	1.00		BBBB
ATOM	5465	CD	GLN	В	211	-4.271	72.313	17.735	1.00		BBBB
ATOM	5466	OE1	GLN	В	211	-4.883	73.220	18.291	1.00		BBBB
ATOM	5467		GLN			-4.822	71.134	17.470	1.00	47.71	BBBB
ATOM	5468	C	GLN			-3.262	75.142	14.574	1.00	52.08	BBBB
									1.00		BBBB
ATOM	5469	0	GLN			-4.048	75.961	15.049			BBBB
ATOM	5470	N	CYS	В	212	-2.442	75.440	13.578	1.00	31.21	DDDD

ATOM	5471	CA			3 212	-2.453	76.763	12.994	1.00 50.26	BBBB
ATOM	5472	C			212	-3.769	77.115	12.327	1.00 51.10	BBBB
ATOM ATOM	5473 5474	O CB			3 212 3 212	-4.307	76.339	11.530	1.00 50.41	BBBB
ATOM	5475	SG			3 212	-1.330 0.301	76.893 76.968	11.987 12.776	1.00 50.49 1.00 50.39	BBBB
ATOM	5476	N			213	-4.286	78.290	12.680	1.00 50.39	BBBB BBBB
ATOM	5477	CA			213	-5.528	78.806	12.106	1.00 52.01	BBBB
ATOM ATOM	5478 5479	CB			213	-6.420	79.381	13.187	1.00 52.25	BBBB
ATOM	5480	0			3 213 3 213	-5.124 -4.136	79.902	11.135	1.00 51.79	BBBB
ATOM	5481	N			214	-5.875	80.606 80.028	11.362 10.049	1.00 49.63 1.00 52.64	BBBB BBBB
ATOM	5482	CA			214	-5.595	81.045	9.044	1.00 54.79	BBBB
ATOM ATOM	5483	CB			214	-5.480	82.410	9.700	1.00 54.65	BBBB
ATOM	5484 5485	С 0			214 214	-4.333 -4.406	80.750	8.243	1.00 55.60	BBBB
ATOM	5486	N			215	-3.184	80.575 80.703	7.025 8.918	1.00 56.74 1.00 55.49	BBBB
MOTA	5487	CA	GLY	В	215	-1.925	80.429	8.234	1.00 54.91	BBBB BBBB
ATOM	5488	C			215	-0.710	80.383	9.147	1.00 55.19	BBBB
ATOM ATOM	5489 5490	O N			215	-0.852	80.364	10.369	1.00 54.27	BBBB
ATOM	5491	CA			216	0.489 1.708	80.378 80.319	8.565 9.369	1.00 57.02	BBBB
ATOM	5492	C	CYS	В	216	2.982	80.867	8.723	1.00 60.29 1.00 62.59	BBBB BBBB
ATOM	5493	0			216	3.027	81.130	7.525	1.00 64.03	BBBB
ATOM ATOM	5494 5495	CB SG			216	1.964	78.878	9.801	1.00 59.59	BBBB
ATOM	5496	N			216	2.366 4.021	77.756 81.016	8.430 9.543	1.00 57.68	BBBB
ATOM	5497	CA			217	5.318	81.523	9.101	1.00 64.51 1.00 66.94	BBBB BBBB
ATOM	5498	CB	THR	В	217	5.689	82.815	9.830	1.00 67.00	BBBB
ATOM ATOM	5499	OG1	THR	В	217	5.861	82.540	11.228	1.00 66.58	BBBB
ATOM	5500 5501	CGZ	THR		217	4.604 6.425	83.852	9.651	1.00 66.04	BBBB
ATOM	5502	Ö			217	7.611	80.511 80.835	9.387 9.297	1.00 69.34 1.00 68.96	BBBB BBBB
ATOM	5503	N	GLY	В	218	6.025	79.291	9.742	1.00 71.55	BBBB
ATOM ATOM	5504	CA			218	6.978	78.237	10.044	1.00 72.15	BBBB
ATOM	5505 5506	С 0			218 218	6.296 5.106	76.882 76.800	10.021	1.00 73.48	BBBB
ATOM	5507	N			219	7.019	75.792	9.707 10.332	1.00 74.14 1.00 73.86	BBBB BBBB
MOTA	5508	CD	PRO	В	219	8.491	75.688	10.344	1.00 73.37	BBBB
ATOM ATOM	5509	CA			219	6.412	74.458	10.326	1.00 73.94	BBBB
ATOM	5510 5511	CB CG			219 219	7.487 8.725	73.616	9.665	1.00 73.10	BBBB
ATOM	5512	c			219	6.094	74.173 73.976	10.308 11.744	1.00 73.62 1.00 73.98	BBBB BBBB
ATOM	5513	0			219	5.295	73.056	11.940	1.00 72.68	BBBB
ATOM ATOM	5514 5515	N N			220	6.724	74.620	12.723	1.00 74.67	BBBB
ATOM	5516	CA ·			-220 - 220	7.606	74.273 74.998	14.128	1.00 75.55	BBBB
ATOM	5517	CG			220	7.881	74.355	14.972 16.325	1.00 76.68 0.01 78.00	BBBB BBBB
ATOM	5518	CD			220	8.471	72.961	16.160	0.01 79.20	BBBB
ATOM ATOM	5519 5520	NE CZ			220 220	8.733			0.01 80.22	BBBB
ATOM	5521		ARG			7.793 6.519	71.988 72.246	18.324 18.065	0.01 80.77	BBBB
ATOM	5522	NH2	ARG	В	220	8.128	71.402	19.465	0.01 81.11 0.01 81.10	BBBB BBBB
ATOM	5523	C			220	5.153	74.580	14.668	1.00 75.60	BBBB
ATOM ATOM	5524 5525	О И	ARG GLU		220	4.209	74.811	13.914	1.00 76.09	BBBB
ATOM	5526	CA	GLU			5.041 3.781	74.586 74.828	15.991 16.685	1.00 75.46 1.00 73.40	BBBB
MOTA	5527	CB	GLU	В	221	3.647	73.808	17.810	1.00 75.34	BBBB BBBB
ATOM	5528	CG	GLU	В	221	2.266	73.655	18.383	1.00 77.59	BBBB
ATOM ATOM	5529 5530	CD	GLU GLU	В	221	2.240	72.622	19.488	1.00 79.24	BBBB
ATOM	5531	OE2	GLU	В	221	1.130 3.338	72.193 72.245	19.880 19.965	1.00 79.13 1.00 79.05	BBBB
ATOM	5532	C	GLU			3.746	76.238	17.262	1.00 79.05	BBBB BBBB
ATOM	5533	0	GLU			2.773	76.638	17.898	1.00 70.33	BBBB
ATOM ATOM	5534 5535	N CA	SER			4.822	76.981	17.042	1.00 68.31	BBBB
ATOM	5536	CB	SER SER			4.924 6.140	78.341 78.475	17.533	1.00 66.69	BBBB
ATOM	5537	OG	SER			7.343	78.246	18.449 17.735	1.00 66.78 1.00 66.39	BBBB BBBB
ATOM	5538	C	SER	В	222	5.057	79.306	16.356	1.00 66.04	BBBB
ATOM ATOM	5539 5540	О И	SER			5.494	80.448	16.518	1.00 64.97	BBBB
ATOM	5541	CA	ASP ASP			4.683 4.765	78.841 79.674	15.167 13.972	1.00 65.13	BBBB
ATOM	5542	CB	ASP	В	223	5.604	78.978	12.898	1.00 63.88 1.00 66.53	BBBB BBBB
ATOM	5543	CG	ASP	В	223	6.979	78.582	13.394	1.00 69.14	BBBB
ATOM ATOM	5544 5545		ASP			7.663	79.430	14.010	1.00 68.77	BBBB
. II OF	2243	UUZ	ASP	¤	<i>-23</i>	7.377	77.421	13.158	1.00 71.58	BBBB

ATOM	5546	С	ASP	В	223	3.394	80.015	13.390	1.00 61.34	BBBB
ATOM	5547	0			223	3.311	80.553	12.294	1.00 60.65	BBBB
ATOM	5548	N	CYS			2.327	79.697	14.119	1.00 59.27	BBBB
ATOM	5549	CA	CYS		224	0.964	79.973	13.661	1.00 57.32	BBBB
ATOM	5550	C	CYS			0.662	81.468	13.570	1.00 56.08	BBBB
ATOM	5551	0	CYS	В	224	1.207	82.254	14.347	1.00 56.36	BBBB
ATOM	5552	СВ	CYS			-0.056	79.348	14.618	1.00 56.21	BBBB
ATOM	5553	SG	CYS			-0.095	77.533	14.684	1.00 52.96	BBBB
ATOM	5554	N	LEU			-0.200	81.860	12.626	1.00 53.46	BBBB
ATOM	5555	CA	LEU			-0.596	83.270	12.507	1.00 51.28	BBBB
ATOM	5556	СВ	LEU			-1.332	83.539	11.194	1.00 49.12	BBBB
ATOM	5557	CG	LEU			-0.465	83.623	9.942	1.00 48.71	BBBB
ATOM	5558		LEU			-1.334	83.716	8.699	1.00 45.89	BBBB
ATOM	5559		LEU			0.456	84.817	10.068	1.00 47.61	BBBB
ATOM	5560	C	LEU			-1.553	83.499	13.664	1.00 49.96	BBBB
ATOM	5561	ō	LEU			-1.524	84.522	14.340	1.00 49.52	BBBB
ATOM	5562	N	VAL			-2.391	82.499	13.883	1.00 48.99	BBBB
ATOM	5563	CA	VAL			-3.371	82.510	14.943	1.00 48.31	BBBB
ATOM	5564	CB	VAL			-4.625		14.514	1.00 46.91	BBBB
ATOM	5565		VAL			-5.267	82.711	13.291	1.00 47.58	BBBB
ATOM	5566		VAL			-5.606	83.368	15.644	1.00 50.56	BBBB
ATOM	5567	C	VAL			-3.702	81.033	15.237	1:00 30:30	BBBB
ATOM	5568	0	VAL			-3.491	80.156	14.385	1.00 48.92	BBBB
ATOM	5569	N	CYS				80.766		1.00 48.92	BBBB
						-4.203		16.442 16.888	1.00 46.37	BBBB
MOTA	5570	CA	CYS			-4.526	79.411			
ATOM	5571	C	CYS			-5.964	78.969	16.613	1.00 46.96	BBBB
ATOM	5572	0	CYS		227	-6.878	79.789	16.603	1.00 46.90 1.00 47.58	BBBB
ATOM	5573	CB		-		-4.270	79.291	18.400		BBBB
ATOM	5574	SG	ARG		227	-2.575	79.624	19.011	1.00 45.18	BBBB
ATOM	5575 5576	N				-6.151	77.665	16.408	1.00 46.74	BBBB
ATOM		CA	ARG			-7.466	77.074	16.167		BBBB
ATOM	5577	CB	ARG			-7.336	75.711	15.491	1.00 49.25	BBBB
ATOM	5578	CG	ARG			-7.508	75.679	13.990	1.00 52.88	BBBB
ATOM	5579	CD			228	-7.754	74.237	13.558	1.00 57.98	BBBB
ATOM	5580	NE			228	-8.904	73.686	14.274	1.00 62.81	BBBB
ATOM	5581	CZ			228	-10.173	73.986	14.001	1.00 65.29	BBBB
ATOM	5582		ARG			-10.458	74.823	13.009	1.00 65.88	BBBB
ATOM	5583		ARG			-11.158	73.489	14.747	1.00 65.20	BBBB
ATOM	5584	C			228	-8.201	76.871	17.489	1.00 47.22	BBBB
ATOM	5585	0	ARG			-9.403	77.090	17.570	1.00 48.08	BBBB
ATOM	5586	N			229	-7.485	76.418	18.517	1.00 47.70	BBBB
ATOM	5587	CA			229	-8.092	76.204	19.837	1.00 49.08	BBBB
ATOM	5588	CB			229	-8.138	74.717	20.202	1.00 50.16	BBBB
ATOM	5589	CG	LYS			-8.970	73.840	19.271	1.00 53.15	BBBB
ATOM.					-229-	-97088	72.424	19.836	1.00-56-15	BBBB
ATOM	5591	CE			229	-9.754	71.454	18.866	1.00 57.64	BBBB
MOTA	5592	NZ			229	-9.711	70.042	19.375	1.00 56.94	BBBB
ATOM	5593	С			229	-7.360	76.967	20.941	1.00 48.38	BBBB
MOTA	5594	0	LYS			-7.409	78.195	20.979	1.00 49.78	BBBB
ATOM	5595	N			230	-6.669	76.261	21.828	1.00 46.36	BBBB
ATOM	5596	CA			230	-5.983	76.948		1.00 46.64	BBBB
ATOM	5597	CB			230	-5.639	75.983	24.058	1.00 43.74	BBBB
ATOM	5598	CG			230	-6.834	75.379	24.716	1.00 41.30	BBBB
ATOM	5599		PHE			-7.354	74.160	24.267	1.00 40.09	BBBB BBBB
ATOM	5600		PHE			-7.471	76.039	25.752	1.00 36.60	
ATOM	5601		PHE			-8.498	73.609	24.842	1.00 37.80	BBBB
ATOM	5602		PHE			-8.618	75.499	26.334	1.00 39.34	BBBB
MOTA	5603	CZ			230	-9.133	74.275	25.874	1.00 39.20	BBBB
ATOM .	5604	С			230	-4.719	77.677	22.536	1.00 47.87	BBBB
MOTA	5605	0			230	-4.120	77.418	21.498	1.00 48.54	BBBB
MOTA	5606	N	ARG			-4.327	78.600	23.404	1.00 50.85	BBBB
ATOM	5607	CA	ARG			-3.108	79.362	23.230	1.00 55.68	BBBB
ATOM	5608	CB	ARG			-3.407	80.850	23.057	1.00 58.01	BBBB
ATOM	5609	CG	ARG			-2.159	81.695	22.793	1.00 63.59	BBBB
MOTA	5610	CD	ARG			-2.362	83.150	23.208	1.00 68.98	BBBB
ATOM	5611	NE			231	-3.473	83.783	22.499	1.00 74.41	BBBB
MOTA	5612	CZ			231	-4.017	84.950	22.841	1.00 76.69	BBBB
ATOM	5613		ARG			-3.559	85.620	23.892	1.00 77.43	BBBB
ATOM	5614		ARG			-5.013	85.455	22.121	1.00 78.28	BBBB
MOTA	5615	С			231	-2.264	79.152	24.492	1.00 57.61	BBBB
ATOM	5616	0			231	-2.659	79.549	25.591	1.00 57.75	BBBB
MOTA	5617	N			232	-1.122	78.491	24.332	1.00 59.15	BBBB
MOTA	5618	CA	ASP			-0.213	78.244	25.440	1.00 59.97	BBBB
MOTA	5619	CB	ASP			0.201	76.777	25.484	1.00 61.38	BBBB
ATOM	5620	CG	ASP	В	232	1.000	76.438	26.724	1.00 59.85	BBBB

ATOM	5621				3 232	0.673	76.994	27.788	1.00 58.80	BBBB
ATOM	5622		ASI			1.935	75.612	26.635		BBBB
ATOM ATOM	5623 5624	C O			232	1.001	79.121			BBBB
ATOM	5625	N			3 232 3 233	1.983 0.904	78.699		1.00 59.08	BBBB
ATOM	5626	CA			233	1.953	80.355 81.350			BBBB
ATOM	5627	CB	GLU	JE	233	3.224	80.930		1.00 65.57	BBBB BBBB
ATOM	5628	CG			233	3.050	80.774	27.798	1.00 69.23	BBBB
ATOM ATOM	5629 5630	CD	GLU			2.230	81.898	28.422	1.00 71.92	BBBB
ATOM	5631	OE2	GFO	ים קו	233 233	0.991 2.818	81.898 82.784	28.242	1.00 74.72	BBBB
ATOM	5632	C			233	2.249	81.559	29.083 24.051	1.00 72.23 1.00 61.66	BBBB
ATOM	5633	0			233	1.455	82.169	23.335	1.00 60.89	BBBB BBBB
ATOM	5634	N			234	3.377	81.034	23.590	1.00 60.40	BBBB
ATOM	5635	CA			234	3.761	81.198	22.201	1.00 58.53	BBBB
ATOM ATOM	5636 5637	CB C			234	5.243	81.492	22.114	1.00 56.71	BBBB
ATOM	5638	Ö			234	3.413 3.890	80.016 79.942	21.300	1.00 58.73	BBBB
ATOM	5639	N			235	2.585	79.091	20.171 21.769	1.00 60.50 1.00 56.70	BBBB BBBB
ATOM	5640	CA	THR	В	235	2.234	77.960	20.916	1.00 55.07	BBBB
ATOM	5641	CB			235	2.852	76.638	21.425	1.00 55.35	BBBB
ATOM ATOM	5642 5643				235	2.292	76.306	22.702	1.00 56.07	BBBB
ATOM	5644	C			235	4.358 0.735	76.764	21.536	1.00 55.75	BBBB
ATOM	5645	Ö			235	-0.050	77.739 78.218	20.790 21.604	1.00 53.05 1.00 53.61	BBBB BBBB
ATOM	5646	N			236	0.344	77.003	19.761	1.00 50.02	BBBB
ATOM	5647	CA			236	-1.055	76.694	19.560	1.00 48.29	BBBB
ATOM ATOM	5648 5649	0			236	-1.196	75.220	19.902	1,00 46.55	BBBB
ATOM	5650	CB			236 236	-0.535 -1.442	74.388	19.304	1.00 46.23	BBBB
ATOM	5651	SG			236	-1.415	76.972 78.740	18.108 17.616	1.00 50.12 1.00 49.80	BBBB
ATOM	5652	N			237	-2.050	74.899	20.870	1.00 45.86	BBBB BBBB
ATOM	5653	CA			237	-2.226	73.516	21.314	1.00 44.21	BBBB
ATOM ATOM	5654	CB			237	-1.652	73.358	22.720	1.00 43.64	BBBB
ATOM	5655 5656	CG	LYS			-0.185	73.730	22.863	1.00 44.01	BBBB
ATOM	5657	CE	LYS		237	0.266 1.682	73.463 72.923	24.283 24.345	1.00 45.77 1.00 47.29	BBBB
MOTA	5658	NZ	LYS			2.709	73.964	24.085	1.00 47.29	BBBB BBBB
ATOM	5659	C	LYS		237	-3.659	72.997	21.325	1.00 44.70	BBBB
ATOM ATOM	5660 5661	0	LYS			-4.604	73.752	21.554	1.00 46.16	BBBB
ATOM	5662	N CA	ASP		238 238	-3.808 -5.115	71.693	21.099	1.00 44.77	BBBB
ATOM	5663	CB	ASP		238	-4.994	71.047 69.602	21.095 20.610	1.00 43.86 1.00 47.46	BBBB
ATOM	5664	CG	ASP	В	238	-6.345	68.899	20.518	1.00 50.83	BBBB BBBB
ATOM	5665				238	-7.139	69.253	19.615	1.00 52.39	BBBB
ATOM ATOM	5666 5667	OD2 C				-6.612	67.999	21.352	1.00 51.08	BBBB
ATOM	5668	0	ASP		238 238	-5.706 -6.925	71.074	22.502	1.00 43.16	BBBB
ATOM	5669	N			239	-4.840	71.125 71.023	22.672 23.510	1.00 43.11 1.00 41.20	BBBB
ATOM	5670	CA	THR			-5.276	71.093	24.901	1.00 42.58	BBBB BBBB
ATOM	5671	CB			239	-5.681	69.719	25.477	1.00 43.94	BBBB
ATOM ATOM	5672 5673				239	-4.545	68.851	25.487	1.00 44.73	BBBB
ATOM	5674	CG2 C	• •		239 239	-6.796	69.092	24.653	1.00 45.02	BBBB
ATOM	5675	Ö			239	-4.133 -2.971	71.633 71.493	25.744 25.377	1.00 42.78 1.00 42.53	BBBB
ATOM	5676	N	CYS	В	240	-4.457	72.269	26.865	1.00 42.53	BBBB BBBB
ATOM	5677				240	-3.418	72.801	27.745	1.00 43.19	BBBB
ATOM	5678	C			240	-2.670	71.654	28.417	1.00 43.24	BBBB
ATOM ATOM	5679 5680	O CB			240 240	-3.276	70.662	28.842	1.00 41.29	BBBB
ATOM	5681	SG			240	-4.031 -4.778	73.692 75.223	28.827 28.198	1.00 43.38	BBBB
ATOM	5682	N			241	-1.338	71.759	28.506	1.00 42.36 1.00 42.88	BBBB BBBB
ATOM	5683	CD			241	-0.444	72.761	27.909	1.00 43.66	BBBB
ATOM	5684	CA	PRO			-0.575	70.686	29.150	1.00 43.09	BBBB
ATOM ATOM	5685 5686	CB CG	PRO			0.871	71.199	29.093	1.00 43.29	BBBB
ATOM	5687	C	PRO PRO			0.743 -1.083	72.685	28.823	1.00 43.72	BBBB
ATOM	5688	0	PRO			-1.083	70.431 71.329	30.575 31.412	1.00 42.51 1.00 41.55	BBBB BBBB
ATOM	5689	N	PRO	В	242	-1.542	69.193	30.858	1.00 41.55	BBBB
ATOM	5690		PRO			-1.541	68.034	29.950	1.00 40.97	BBBB
ATOM ATOM	5691		PRO			-2.068	68.809	32.177	1.00 42.23	BBBB
ATOM ATOM	5692 5693		PRO PRO			-2.514 -2.697	67.359	31.972	1.00 40.84	BBBB
ATOM	5694		PRO			-2.697 -1.056	67.239 68.935	30.481 33.307	1.00 40.75 1:00 42.92	BBBB
MOTA	5695		PRO			0.141	68.750	33.307	1.00 42.92	BBBB BBBB
						=		100	2.00 42.00	2200

ATOM	5696	N	LEU	R	243	-1.556	69.252	34.495	1.00 44.28	BBBB
ATOM	5697		LEU			-0.718	69.402	35.671	1.00 46.48	BBBB
ATOM	5698		LEU		243	-1.544	69.960	36.828	1.00 44.23	BBBB
						-2.343	71.232	36.554	1.00 44.79	BBBB
ATOM	5699		LEU					37.814	1.00 43.50	BBBB
ATOM	5700	CD1				-3.098	71.613			
MOTA	5701	CD2				-1.427	72.362	36.110	1.00 44.07	BBBB
ATOM	5702		LEU			-0.142	68.042	36.062	1.00 48.57	BBBB
ATOM	5703	0	LEU	В	243	0.964	67.946	36.599	1.00 49.95	BBBB
ATOM	5704	N	MET	В	244	-0.906	66.992	35.786	1.00 49.47	BBBB
ATOM	5705	CA	MET	В	244	-0.497	65.630	36.095	1.00 49.88	BBBB
ATOM	5706	CB	MET	В	244	-1.458	65.027	37.130	1.00 50.96	BBBB
ATOM	5707		MET		244	-1.260	65.513	38.565	1.00 50.70	BBBB
ATOM	5708		MET			-2.735	65.319	39.636	1.00 47.09	BBBB
ATOM	5709		MET			-2.927	67.030	40.259	1.00 40.15	BBBB
						-0.493	64.753	34.844	1.00 49.49	BBBB
ATOM	5710		MET						1.00 43.43	BBBB
MOTA	5711	0	MET			-1.376	64.872	34.002		
ATOM	5712	N			245	0.501	63.877	34.724	1.00 48.70	BBBB
MOTA	5713	CA			245	0.576	62.945	33.599	1.00 48.07	BBBB
ATOM	5714	CB	LEU	В	245	1.733	63.287	32.659	1.00 48.96	BBBB
ATOM	5715	CG	LEU	В	245	1.588	64.478	31.701	1.00 50.29	BBBB
ATOM	5716	CD1	LEU	В	245	2.905	64.696	30.969	1.00 47.80	BBBB
ATOM	5717	CD2	LEU	В	245	0.463	64.223	30.705	1.00 48.67	BBBB
ATOM	5718	С	LEU	В	245	0.764	61.529	34.124	1.00 47.56	BBBB
ATOM	5719	0			245	1.611	61.274	34.978	1.00 47.72	BBBB
ATOM	5720	N			246	-0.039	60.608	33.612	1.00 47.61	BBBB
ATOM	5721	CA			246	0.030	59.209	34.021	1.00 46.73	BBBB
					246	-1.071	58.401	33.324	1.00 44.24	BBBB
ATOM	5722	CB							1.00 43.36	
ATOM	5723	CG			246	-1.218	56.967	33.791		
MOTA	5724	CD1				-1.702	56.666	35.064	1.00 43.04	BBBB
MOTA	5725	CE1				-1.923	55.352	35.466	1.00 43.28	BBBB
MOTA	5726	CD2	TYR	В	246	-0.942	55.912	32.935	1.00 44.22	BBBB
MOTA	5727	CE2	TYR	В	246	-1.154	54.594	33.325	1.00 44.67	BBBB
ATOM	5728	CZ	TYR	В	246	-1.653	54.321	34.587	1.00 44.87	BBBB
MOTA	5729	OH	TYR	В	246	-1.924	53.018	34.940	1.00 45.39	BBBB
MOTA	5730	С	TYR	В	246	1.383	58.618	33.662	1.00 46.12	BBBB
ATOM	5731	0			246	1.968	58.956	32.637	1.00 46.43	BBBB
ATOM	5732	N			247	1.884	57.739	34.518	1.00 45.77	BBBB
ATOM	5733	CA			247	3.151	57.088	34.252	1.00 47.24	BBBB
		CB			247	4.068	57.178	35.460	1.00 46.38	BBBB
ATOM	5734					5.446	56.663	35.160	1.00 46.87	BBBB
ATOM	5735	CG			247			34.539	1.00 46.47	BBBB
ATOM	5736				247	5.601	55.605			BBBB
ATOM	5737				247	6.463	57.404	35.588	1.00 45.69	
MOTA	5738	С			247	2.825	55.631	33.966	1.00 48.63	BBBB
MOTA	5739	0			247	2.606	54.851	34.882	1.00 49.57	BBBB
MOTA	5740	N	PRO	В	248	2.799	55.244	32.685		BBBB
MOTA	5741	CD	PRO	В	248	3.387	56.004	31.568	1.00 51.00	BBBB
ATOM	5742	CA	PRO	В	248	2.485	53.868	32.271	1.00 52.09	BBBB
ATOM	5743	CB	PRO	В	248	2.727	53.902	30.764	1.00 51.05	BBBB
ATOM	5744	CG	PRO	В	248	3.853	54.902	30.643	1.00 50.53	BBBB
ATOM	5745	С	PRO	В	248	3.307	52.780	32.967	1.00 53.08	BBBB
ATOM	5746	Ō			248	2.800	51.697	33.267	1.00 52.68	BBBB
ATOM	5747	N			249	4.573		33.225	1.00 53.08	BBBB
ATOM	5748	CA			249	5.446		33.873	1.00 53.89	BBBB
ATOM	5749	CB			249	6.917	52.541	33.725	1.00 54.85	BBBB
	5750				249	7.276	52.534		1.00 53.83	BBBB
ATOM						7.826	51.587	34.479	1.00 56.78	BBBB
MOTA	5751				249				1.00 53.29	BBBB
MOTA	5752	C			249	5.121	51.927	35.356		BBBB
MOTA	5753	0			249	4.811	50.820	35.800	1.00 54.88	
MOTA	5754	N	THR	В	250	5.179		36.111	1.00 51.08	BBBB
MOTA	5755	CA	THR	В	250	4.922	52.996	37.542	1.00 48.60	BBBB
ATOM	5756	CB	THR	В	250	5.602	54.185		1.00 48.51	BBBB
MOTA	5757	OG1	THR	В	250	4.992	55.393	37.730	1.00 50.91	BBBB
MOTA	5758	CG2	THR	В	250	7.068	54.215	37.822	1.00 46.51	BBBB
ATOM	5759	С			250	3.448	53.007	37.942	1.00 49.02	BBBB
ATOM	5760	ō			250	3.128	52.993	39.134	1.00 47.95	BBBB
ATOM	5761	N			251	2.558	53.034	36.950	1.00 49.53	BBBB
ATOM	5762	CA			251	1.108	53.052	37.181	1.00 48.84	BBBB
	5763				251	0.615	51.711	37.731	1.00 48.26	BBBB
MOTA		CB								BBBB
ATOM	5764	CG			251	0.714			1.00 48.72	BBBB
ATOM	5765				251	1.936		36.505		BBBB
ATOM	5766				251	2.040			1.00 49.48	BBBB
MOTA	5767				251	-0.410			1.00 46.89	
ATOM	5768	CE 2			251	-0.317				BBBB
ATOM	5769	CZ	TYF	E	251	0.912			1.00 48.88	BBBB
MOTA	5770	OH	TYF	t B	251	1.028	47.446	34.016	1.00 51.79	BBBB

ATOM	5771	С	TYR B		0.616	54.140	38.118	1.00 49.90	BBBB
ATOM ATOM	5772 5773	O N	TYR B		-0.427	53.980	38.743	1.00 51.56	BBBB
ATOM	5774	CA	GLN B		1.356 0.920	55.233 56.319	38.242 39.107	1.00 50.65	BBBB
MOTA	5775	СВ	GLN B		1.793	56.376	40.362	1.00 51.46 1.00 52.30	BBBB BBBB
ATOM	5776	CG	GLN B	252	3.266	56.604	40.101	1.00 56.02	BBBB
ATOM	5777	CD	GLN B		4.076	56.642	41.387	1.00 60.02	BBBB
ATOM ATOM	5778 5779		GLN B		3.779	57.418	42.300	1.00 62.84	BBBB
ATOM	5780	C	GLN B		5.107 0.923	55.801 57.675	41.468 38.378	1.00 61.37	BBBB
ATOM	5781	0	GLN B		1.367	57.782	37.230	1.00 51.97 1.00 50.68	BBBB BBBB
ATOM	5782	N	MET B		0.414	58.705	39.048	1.00 52.19	BBBB
ATOM ATOM	5783 5784	CA	MET B		0.346	60.046	38.472	1.00 52.86	BBBB
ATOM	5784 5785	CB CG	MET B		-0.899 -2.188	60.763 60.333	38.984	1.00 53.39	BBBB
ATOM	5786	SD	MET B		-2.273	60.878	38.343 36.652	1.00 54.72 1.00 59.93	BBBB BBBB
MOTA	5787	CE	MET B		-2.665	59.403	35.879	1.00 55.60	BBBB
ATOM	5788	C	MET B		1.559	60.908	38.791	1.00 52.95	BBBB
ATOM ATOM	5789 5790	О И	MET B		1.861 2.244	61.141	39.952	1.00 54.22	BBBB
ATOM	5791	CA	ASP B		3.404	61.394 62.252	37.763 37.969	1.00 53.40 1.00 54.52	BBBB BBBB
ATOM	5792	CB	ASP B	254	4.492	61.940	36.948	1.00 53.26	BBBB
ATOM	5793	CG	ASP B		5.189	60.640	37.234	1.00 53.98	BBBB
ATOM ATOM	5794 5795		ASP B		5.980	60.186	36.379	1.00 51.42	BBBB
ATOM	5796	C	ASP B		4.943 3.020	60.077 63.717	38.323 37.844	1.00 54.06 1.00 56.59	BBBB
ATOM	57 97	0	ASP B		1.983	64.054	37.281	1.00 57.87	BBBB BBBB
ATOM	5798	N	VAL B		3.854	64.589	38.392	1.00 58.33	BBBB
ATOM ATOM	5799 5800	CA CB	VAL B		3.605	66.011	38.304	1.00 58.74	BBBB
ATOM	5801		VAL B		4.284 4.436	66.772 68.234	39.439 39.058	1.00 58.39	BBBB
ATOM	5802		VAL B		3.463	66.651	40.701	1.00 59.18 1.00 56.92	BBBB BBBB
ATOM	5803	С	VAL B		4.200	66.470	36.987	1.00 60.51	BBBB
ATOM ATOM	5804 5805	0	VAL B		5.311	66.078	36.634	1.00 61.70	BEBB
ATOM	5806	N CA	ASN B		3.452 3.926	67.282 67.794	36.251	1.00 61.41	BBBB
ATOM	5807	CB	ASN B		2.791	67.816	34.976 33.954	1.00 62.26 1.00 60.88	BBBB BBBB
ATOM	5808	CG	ASN B		3.257	68.226	32.570	1.00 59.10	BBBB
ATOM ATOM	5809		ASN B		4.366	68.735	32.399	1.00 58.38	BBBB
ATOM	5810 5811	C C	ASN B		2.403 4.442	68.018 69.206	31.575	1.00 56.56	BBBB
ATOM	5812	ō	ASN B		3.676	70.122	35.209 35.499	1.00 64.11 1.00 64.54	BBBB BBBB
ATOM	5813	N	PRO B		5.760	69.395	35.106	1.00 65.81	BBBB
ATOM	5814	CD	PRO B		6.783	68.406	34.716	1.00 66.39	BBBB
ATOM ATOM	5815 5816	CA CB	PRO B		6.356 7.852	70.717	35.313	1.00 66.91	BBBB
ATOM	5817	CG	PRO B		7.832	70.420 69.285	35.272 34.267	1.00 67.97 1.00 67.03	BBBB BBBB
MOTA	5818	C	PRO B	257	5.922	71.709	34.234	1.00 67.21	BBBB
ATOM ATOM	5819	0	PRO B		6.143	72.910	34.358	1.00 66.40	BBBB
ATOM	5820 5821	N CA	GLU B		5.308 4.831	71.189 72.012	33.174	1.00 67.99	BBBB
MOTA	5822	CB	GLU B		5.107	71.310	32.067 30.736	1.00 68.23 1.00 70.73	BBBB BBBB
ATOM	5823	CG	GLU B		6.543	70.838	30.580	1.00 77.36	BBBB
ATOM ATOM	5824 5825	CD	GLU B		7.551	71.967	30.732	1.00 80.96	BBBB
ATOM	5826		GLU B		7.591 8.300	72.853 71.972	29.849 31.737	1.00 82.48	BBBB
ATOM	5827	C	GLU B		3.329	72.238	32.223	1.00 82.52 1.00 66.09	BBBB BBBB
ATOM	5828	0	GLU B		2.676	72.792	31.346	1.00 66.48	BBBB
ATOM ATOM	5829 5830	N	GLY B		2.793	71.800	33.354	1.00 64.22	BBBB
ATOM	5831	CA C	GLY B		1.374 0.873	71.939 73.364	33.619	1.00 61.97	BBBB
ATOM	5832	ō	GLY B		1.533	74.277	33.625 34.121	1.00 60.36 1.00 59.77	BBBB BBBB
ATOM	5833	N	LYS B		-0.320	73.543	33.075	1.00 58.66	BBBB
ATOM	5834	CA	LYS B		-0.943	74.851	32.987	1.00 56.83	B <b>BB</b> B
ATOM ATOM	5835 5836	CB CG	LYS B		-0.711 0.752	75.435	31.596	1.00 57.56	BBBB
ATOM	5837	CD	LYS B		1.460	75.523 76.588	31.204 32.008	1.00 57.07 1.00 57.12	BBBB BBBB
ATOM	5838	CE	LYS B		1.191	77.972	31.459	1.00 58.20	BBBB
ATOM	5839	NZ	LYS B		1.942	78.221	30.191	1.00 59.08	BBBB
ATOM ATOM	5840 5 <b>84</b> 1	C O	LYS B		-2.431	74.684	33.225	1.00 55.76	BBBB
ATOM	5842	N	TYR B		-2.950 -3.117	73.572 75.790	33.189 33.476	1.00 55.76 1.00 54.61	BBBB
MOTA	5843		TYR B		-4.550	75.743	33.707	1.00 52.33	BBBB BBBB
ATOM	5844	СВ	TYR B		-4.920	76.554	34.948	1.00 53.78	BBBB
ATOM	5845	CG	TYR B	261	-4.393	75.989	36.247	1.00 55.65	BBBB

ATOM	5846	CD1	TYR 1	B 261		-3.053	76.137	36.609	1.00 56.77	BBBB
ATOM	5847	CE1	TYR I	B 261		-2.573	75.637	37.820	1.00 56.09	BBBB
ATOM	5848		TYR I			-5.243	75.324	37.129	1.00 56.41	BBBB
ATOM	5849	CE2		B 261		-4.776	74.824	38.340	1.00 56.86	BBBB
ATOM	5850	CZ		B 261		-3.443	74.982	38.680	1.00 57.42	BBBB
ATOM	5851	ОН		B 261		-2.988	74.478	39.880	1.00 58.93	BBBB
ATOM	5852	С		B 261		-5.309	76.276	32.499	1.00 49.86 1.00 46.77	BBBB BBBB
ATOM	5853 5854	О И		B 261 B 262		-4.841 -6.488	77.173 75.712	31.792 32.270	1.00 49.00	BBBB
ATOM ATOM	5855	CA		B 262		-7.315	76.119	31.141	1.00 48.72	BBBB
ATOM	5856	CB		B 262		-7.998	74.898	30.530	1.00 46.78	BBBB
ATOM	5857	OG		B 262		-7.034	74.086	29.894	1.00 46.67	BBBB
ATOM	5858	C		B 262		-8.350	77.184	31.480	1.00 47.19	BBBB
ATOM	5859	0		B 262		-9.329	76.926	32.180	1.00 47.58	BBBB
MOTA	5860	N	PHE 1	B 263		-8.108	78.386	30.972	1.00 45.47	BBBB
ATOM	5861	CA	PHE			-8.994	79.519	31.180	1.00 44.56	BBBB
ATOM	5862	CB		B 263		-8.238	80.658	31.860	1.00 44.19	BBBB
ATOM	5863	CG		B 263		-9.106	81.825	32.228	1.00 43.21	BBBB
ATOM	5864			B 263		-10.315	81.624	32.892	1.00 43.05	BBBB BBBB
ATOM	5865 5866	CD2	PHE :			-8.696 -11.099	83.127 82.706	31.954 33.281	1.00 42.03	BBBB
ATOM ATOM	5867	CE2		B 263		-9.470	84.211	32.339	1.00 40.54	BBBB
ATOM	5868	CZ		B 263		-10.671	84.005	33.003	1.00 42.12	BBBB
ATOM	5869	C	PHE 1			-9.501	79.975	29.814	1.00 44.30	BBBB
ATOM	5870	0		B 263		-8.771	80.615	29.046	1.00 42.53	BBBB
ATOM	5871	N	GLY I	B 264		-10.748	79.622	29.517	1.00 43.88	BBBB
MOTA	5872	CA	GLY !	B 264		-11.337	79.981	28.243	1.00 44.89	BBBB
ATOM	587 <b>3</b>	C	GLY			-10.572	79.361	27.093	1.00 45.67	BBBB
MOTA	5874	0		B 264		-10.622	78.155	26.876	1.00 47.30	BBBB
ATOM	5875	N		B 265		-9.846	80.181	26.353	1.00 45.86	BBBB
ATOM	5876	CA		B 265		-9.091	79.672	25.232	1.00 46.66	BBBB
ATOM	5877 5878	CB		B 265 B 265		-9.541 -7.611	80.348 79.893	23.948 25.452	1.00 46.67 1.00 47.35	BBBB BBBB
ATOM ATOM	5879	0		в 265 В 265		-6.845	80.017	24.499	1.00 47.85	BBBB
ATOM	5880	N		B 266		-7.202	79.948	26.711	1.00 47.55	BBBB
ATOM	5881	CA		B 266		-5.785	80.131	27.005	1.00 48.77	BBBB
ATOM	5882	CB		B 266		-5.493	81.552	27.487	1.00 49.28	BBBB
ATOM	5883	OG1	THR	B 266		-6.321	81.839	28.620	1.00 50.27	BBBB
ATOM	5884	CG2		B 266		-5.749	82.554	26.379	1.00 47.17	BBBB
ATOM	5885	Ç		B 266		-5.289	79.166	28.076	1.00 48.27	BBBB
ATOM	5886	0		B 266		-6.075	78.602	28.842	1.00 47.66	BBBB
ATOM	5887	N		B 267		-3.974	78.986 78.109	28.115 29.093	1.00 47.76 1.00 48.01	BBBB BBBB
ATOM ATOM	5888 5889	CA C		В 267 В 267		-3.341 -2.544	78.103	30.046	1.00 48.01	BBBB
ATOM	5890	0		в 267 В 267		-1.453	79.458	29.711	1.00 46.07	BBBB
ATOM	5891	CB		B 267		-2.416	77.100	28.398	1.00 46.41	BBBB
ATOM	5892	SG		B 267		-3.257	76.075	27.157	1.00 43.04	BBBB
ATOM	5893	N		B 268		-3.095	79.180	31.237	1.00 49.18	BBBB
ATOM	5894	CA	VAL	B 268		-2.457	80.026	32.238	1.00 51.66	BBBB
ATOM	5895	CB	VAL	B 268		-3.470	81.041	32.837	1.00 49.67	BBBB
MOTA	5896		VAL			-3.946	81.995	31.765	1.00 48.10	BBBB .
ATOM	5897		VAL			-4.647	80.302	33.441	1.00 47.38	BBBB
ATOM	5898	C		B 268		-1.800	79.281	33.393	1.00 53.52 1.00 52.62	BEBB BEBB
ATOM ATOM	5899 5900	о И		B 268 B 269		-2.125 -0.876	78.128 79.982	33.684 34.049	1.00 52.62	BBBB
ATOM	5900	CA		B 269		-0.132	79.469	35.194	1.00 58.13	BBBB
ATOM	5902	CB		B 269		1.092	80.352	35.463	1.00 58.86	BBBB
ATOM	5903	CG		B 269		2.191	80.239	34.410	1.00 61.09	BBBB
MOTA	5904	CD		B 269		3.418	81.089	34.750	1.00 61.82	BBBB
ATOM	5905	CE	LYS	B 269		4.102	80.640	36.036	0.01 61.86	BBBB
ATOM	5906	NZ		B 269		3.282	80.894	37.255	0.01 62.07	BBBB
MOTA	5907	С		B 269		-0.973	79.403	36.461	1.00 57.89	BBBB
ATOM	5908	0		B 269		-0.640	78.688	37.393	1.00 59.26	BBBB
MOTA	5909	N		B 270		-2.073	80.137	36.489	1.00 58.12 1.00 59.59	BBBB BBBB
ATOM ATOM	5910 5911	CA		B 270 B 270		-2.918 -2.323	80.165 81.173	37.668 38.661	1.00 60.74	BBBB
MOTA	5911	CB CG		в 270 В 270		-2.323	81.518	39.857	1.00 63.99	BBBB
ATOM	5913	CD		B 270		-2.849	82.908	40.423	1.00 66.07	BBBB
ATOM	5914	CE		B 270		-3.277	84.034	39.467	1.00 67.25	BBBB
ATOM	5915	NZ		B 270		-3.156	85.413	40.044	1.00 67.85	BBBB
ATOM	5916	C	LYS	B 270	)	-4.339	80.577	37.282	1.00 59.88	BBBB
MOTA	5917	0 1		B 270		-4.529	81.337	36.338	1.00 59.74	BEBB
ATOM	5918	N.		B 271		-5.336	80.070	37.999	1.00 59.88	BBBB
MOTA	5919	CA		B 271		-6.709	80.447	37.709	1.00 60.40	BBBB BBBB
MOTA	5920	С	CYS	B 271		-7.066	81.778	38.357	1.00 62.64	סססס

ATOM	5921	0	CYS	В	271	-6.532	82.131	39.410	1.00 62.49	BBBB
ATOM	5922	CB	CYS	В	271	-7.688	79.398	38.215	1.00 57.67	BBBB
ATOM	5923	SG	CYS			-7.838	77.930	37.164	1.00 59.06	BBBB
ATOM	5924	N			272	-7.968	82.547	37.720	1.00 64.83	BBBB
ATOM	5925	CD			272	-8.453	82.360	36.339	1.00 64.78	BBBB
ATOM	5926	CA			272	-8.405	83.844	38.245	1.00 65.19	BBBB
ATOM	5927	CB			272	-9.397	84.320	37.186	1.00 65.42	BBBB
ATOM	5928	CG			272	-8.809	83.773	35.930	1.00 65.07	BBBB
ATOM	5929	C			272	-9.062	83.618	39.604	1.00 65.58	BBBB
ATOM ATOM	5930	0			272	-9.911	82.734	39.755	1.00 66.05	BBBB
ATOM	5931 5932	N CA			273 273	-8.674	84.421	40.585	1.00 66.00	BBBB
ATOM	5933	CB		_	273	-9.192 -8.771	84.283	41.940	1.00 67.82	BBBB
ATOM	5934	CG			273	-7.247	85.503 85.658	42.767 42.863	1.00 70.89 1.00 75.30	BBBB
ATOM	5935	CD			273	-6.795	87.023	43.394	1.00 78.19	BBBB
ATOM	5936	NE			273	-7.225	87.277	44.767	1.00 80.85	BBBB BBBB
ATOM	5937	CZ			273	-6.749	88.258	45.530	1.00 81.63	BBBB
MOTA	5938	NH1	ARG			-5.821	89.081	45.057	1.00 81.49	BBBB
MOTA	5939	NH2	ARG	В	273	-7.200	88.417	46.767	1.00 82.10	BBBB
ATOM	5940	С	ARG	В	273	-10.696	84.036	42.080	1.00 67.52	BBBB
ATOM	5941	0	ARG	В	273	-11.105	83.224	42.911	1.00 67.05	BBBB
ATOM	5942	N	ASN	В	274	-11.514	84.712	41.271	1.00 67.74	BBBB
ATOM	5943	CA	ASN			-12.975	84.558	41.344	1.00 67.53	BBBB
ATOM	5944	CB	ASN			-13.700	85.623	40.516	1.00 70.00	BBBB
ATOM	5945	CG	ASN			-12.860	86.845	40.277	1.00 73.39	BBBB
ATOM	5946		ASN			-11.853	86.797	39.562	1.00 75.38	BBBB
ATOM	5947		ASN			-13.262	87.957	40.876	1.00 75.26	BBBB
ATOM ATOM	5948 5949	C	ASN			-13.424	83.207	40.824	1.00 66.68	BBBB
ATOM	5950	O N	ASN		275	-14.494	82.706	41.206	1.00 65.06	BBBB
ATOM	5951	CA			275	-12.612 -12.934	82.633 81.350	39.938	1.00 64.39	BBBB
ATOM	5952	CB			275	-12.162	81.162	39.338 38.032	1.00 62.04 1.00 63.04	BBBB
ATOM	5953	CG			275	-12.814	81.880	36.879	1.00 64.90	BBBB BBBB
ATOM	5954		TYR			-12.609	83.243	36.675	1.00 65.65	BBBB
ATOM	5955		TYR			-13.299	83.929	35.678	1.00 66.41	BBBB
ATOM	5956	CD2	TYR	В	275	-13.722	81.217	36.047	1.00 65.34	BBBB
ATOM	5957	CE2	TYR	В	275	-14.417	81.894	35.050	1.00 65.02	BBBB
ATOM	5958	CZ	TYR	В	275	-14.201	83.247	34.874	1.00 65.17	BBBB
MOTA	5959	ОН			275	-14.881	83.926	33.901	1.00 64.85	BBBB
ATOM	5960	C			275	-12.724	80.148	40.226	1.00 59.96	BBBB
MOTA	5961	0			275	-11.949	80.177	41.176	1.00 61.63	BBBB
ATOM ATOM	5962	N			276	-13.456	79.095	39.914	1.00 56.51	BBBB
ATOM	5963 5964	CA CB			276 276	-13.358	77.855	40.638	1.00 55.36	BBBB
ATOM	5965		VAL			 -14.678 -14.504	77.089 75.661	40.555 41.058	1.00 56.13 1.00 54:80	BBBB
ATOM	5966		VAL			-15.728	77.822	41.357	1.00 54.80	BBBB BBBB
ATOM	5967	C			276	-12.268	77.044	39.961	1.00 54.68	BBBB
ATOM	5968	0			276	-12.069	77.157	38.758	1.00 54.27	BBBB
ATOM	5969	N	VAL	В	277	-11.544	76.243	40.733	1.00 54.11	BBBB
ATOM	5970	CA	VAL	В	277	-10.499	75.401	40.164	1.00 51.42	BBBB
ATOM	5971	CB	VAL			-9.160	75.587	40.889	1.00 49.12	BBBB
ATOM	5972		VAL			-8.107	74.740	40.230	1.00 47.57	BBBB
ATOM	5973		VAL			-8.743	77.050	40.849	1.00 48.54	BBBB
ATOM	5974	C	VAL			-10.940	73.958	40.309	1.00 51.18	BBBB
ATOM	5975 5076	0	VAL			-11.175	73.492	41.419	1.00 51.13	BBBB
ATOM ATOM	5976 5977	N CA			278 278	-11.080	73.254	39.192	1.00 51.91	BBBB
ATOM	5978	CB			278	-11.495 -12.270	71.854	39.246	1.00 53.54	BBBB
ATOM	5979		THR			-11.432	71.440 71.612	37.985 36.834	1.00 53.89 1.00 54.86	BBBB
ATOM	5980		THR			-13.536	72.272	37.838	1.00 54.86	BBBB BBBB
ATOM	5981	C			278	-10.295	70.916	39.390	1.00 53.10	BBBB
ATOM	5982	ō			278	-9.144	71.353	39.400	1.00 54.63	BBBB
ATOM	5983	N			279	-10.574	69.622	39.502	1.00 54.93	BBBB
ATOM	5984	CA			279	-9.519	68.627	39.638	1.00 56.27	BBBB
ATOM	5985	СВ			279	-10.061	67.367	40.313	1.00 56.20	BBBB
ATOM	5986	CG	ASP	В	279	-10.697	67.654	41.653	1.00 57.63	BBBB
ATOM	5987	OD1	ASP	В	279	-10.073	68.380	42.463	1.00 58.18	BBBB
ATOM	5988		ASP			-11.816	67.145	41.897	1.00 57.58	BBBB
ATOM	5989	С			279	-8.933	68.261	38.275	1.00 56.47	BBBB
ATOM	5990	0			279	-8.023	67.432	38.179	1.00 56.91	BBBB
ATOM	5991	N			280	-9.453	68.892	37.227	1.00 54.94	BBBB
ATOM ATOM	5992	CA			280	-8.994	68.625	35.876	1.00 53.29	BBBB
ATOM	5993 5994	CB CG			280 280	-10.191	68.465	34.943	1.00 52.44	BBBB
ATOM	5995		HIS			-11.106 -12.355	67.347 67.359	35.333 35.857	1.00 54.54	BBBB
	2230	002		٥	-00	14.000	01.333	55.057	1.00 55.05	BBBB

ATOM	5996	ND1	HIS B	280	-10.749	66.020	35.228	1.00 54.20	BBBB
					-11.739	65.265	35.672	1.00 55.16	BBBB
ATOM	5997		HIS B						
ATOM	5998	NE2	HIS B	280	-12.723	66.054	36.059	1.00 52.43	BBBB
ATOM	5999	С	HIS B	280	-8.083	69.719	35.357	1.00 53.12	BBBB
ATOM	6000	0	HIS B	280	-7.927	69.864	34.148	1.00 55.46	BBBB
	6001					70.491	36.264	1.00 51.26	BBBB
ATOM		N	GLY B		-7.490				
ATOM	6002	CA	GLY B	281	-6.586	71.552	35.854	1.00 49.90	BBBB
ATOM	6003	С	GLY B	281	-7.191	72.622	34.962	1.00 49.45	BBBB
ATOM	6004	0	GLY B		-6.610	73.000	33.942	1.00 49.37	BBBB
MOTA	6005	N	SER B		-8.355	73.128	35.349	1.00 49.27	BBBB
MOTA	6006	CA	SER B	282	-9.020	74.158	34.565	1.00 48.44	BBBB
ATOM	6007	CB	SER B	282	-9.867	73.502	33.485	1.00 45.87	BBBB
ATOM	6008	OG	SER B	282	-10.864	72.693	34.072	1.00 42.19	BBBB
			SER B		-9.903	75.072	35.419	1.00 50.74	BBBB
ATOM	6009	С							
ATOM	6010	0	SER B	282	-10.473	74.644	36.433	1.00 50.26	BBBB
ATOM	6011	N	CYS B	283	-10.011	76.330	34.986	1.00 51.84	BBBB
ATOM	6012	CA	CYS B	283	-10.814	77.347	35.660	1.00 52.85	BBBB
ATOM	6013	C	CYS B		-12.249	77.315	35.134	1.00 54.05	BBBB
ATOM	6014	0	CYS B	283	-12.487	77.462	33.943	1.00 55.43	BBBB
ATOM	6015	CB	CYS B	283	-10.200	78.711	35.411	1.00 52.75	BBBB
ATOM	6016	SG	CYS B	283	-8.386	78.653	35.343	1.00 56.09	BBBB
ATOM	6017	N	VAL B		-13.200	77.139	36.037	1.00 55.40	BBBB
MOTA	6018	CA	VAL B		-14.601	77.039	35.680	1.00 58.34	BBBB
MOTA	6019	CB	VAL B	284	-15.128	75.640	36.104	1.00 58.19	BBBB
ATOM	6020	CG1	VAL B	284	-16.621	75.659	36.310	1.00 57.82	BBBB
ATOM	6021		VAL B		-14.762	74.619	35.043	1.00 58.26	BBBB
MOTA	6022	С	VAL B		-15.453	78.151	36.302	1.00 61.53	BBBB
MOTA	6023	0	VAL B	284	-15.035	78.800	37.256	1.00 60.89	BBBB
ATOM	6024	N	ARG B	285	-16.644	78.374	35.744	1.00 64.81	BBBB
ATOM	6025	CA	ARG B		-17.547	79.403	36.243	1.00 66.28	BBBB
ATOM	6026	CB	ARG B		-18.481	79.907	35.134	1.00 65.73	BBBB
ATOM	6027	CG	ARG B	285	-17.849	80.826	34.089	1.00 64.92	BBBB
ATOM	6028	CD	ARG B	285	-18.926	81.398	33.148	1.00 65.37	BBBB
ATOM	6029	NE	ARG B		-18.382	82.083	31.972	1.00 65.19	BBBB
								1.00 63.83	BBBB
MOTA	6030	CZ	ARG B		-17.533	83.102	32.029		
MOTA	6031	NH1	ARG B	285	-17.130	83.556	33.204	1.00 65.89	BBBB
ATOM	6032	NH2	ARG B	285	-17.082	83.664	30.918	1.00 61.88	BBBB
ATOM	6033	С	ARG B	285	-18.397	78.885	37.387	1.00 68.58	BBBB
	6034		ARG B		-18.930	79.678	38.157	1.00 69.77	BBBB
ATOM		0							
MOTA	6035	N	ALA B	286	-18.535	77.565	37.498	1.00 71.05	BBBB
ATOM	6036	CA	ALA B	286	-19.343	76.979	38.568	1.00 74.87	BBBB
ATOM	6037	CB	ALA B	286	-20.805	77.333	38.354	1.00 73.86	BBBB
ATOM	6038	C	ALA B		-19.198	75.460	38.717	1.00 77.82	BBBB
ATOM	6039	0	ALA B		-18.807	74.768	37.783	1.00 78.30	BBBB
MOTA	6040	N -	CYSTB	287	-19.536	74.950	39.899	1.00 81.25	BBBB
ATOM	6041	CA	CYS B	287 '	-19.455	73.519	40.190	1.00 83.95	BBBB
ATOM	6042	C	CYS B		-20.695	72.749	39.726	1.00 85.20	BBBB
							39.151	1.00 83.93	BBBB
MOTA	6043	0	CYS B		-21.616	73.324			
ATOM	6044	CB	CYS B		-19.263	73.292	41.693		BBBB
ATOM	6045	SG	CYS B	287	-17.797	74.087	42.424	1.00 88.49	BBBB
MOTA	6046	N	GLY B		-20.707	71.446	40.002	1.00 87.75	BBBB
ATOM	6047	CA	GLY B		-21.814	70.587	39.608	1.00 90.64	BBBB
								1.00 93.05	BBBB
ATOM	6048	С	GLY B		-23.090	70.758	40.409		
ATOM	6049	0	GLY B		-23.168	71.609	41.294	1.00 94.02	BBBB
ATOM	6050	N	ALA B	289	-24.089	69.934	40.102	1.00 95.14	BBBB
ATOM	6051	CA	ALA B		-25.391	69.995	40.771	1.00 97.32	BBBB
ATOM	6052	CB	ALA B		-26.457	69.326	39.895	1.00 96.64	BBBB
ATOM	6053	С	ALA B		-25.429	69.393	42.177	1.00 98.85	BBBB
ATOM	6054	0	ALA B	289	-26.304	69.733	42.981	1.00 99.11	BBBB
ATOM	6055	N	ALA B	290	-24.495	68.495	42.476	1.00 99.90	BBBB
MOTA	6056	CA	ALA B		-24.455	67.864	43.789	1.00100.64	BBBB
MOTA	6057	CB	ALA B		-24.590	66.352	43.645	1.00100.38	BBBB
MOTA	6058	С	ALA B		-23.154	68.210	44.496	1.00101.40	BBBB
ATOM	6059	0	ALA B	290	-22.439	67.324	44.959	1.00102.21	BBBB
ATOM	6060	N	SER B		-22.855	69.504	44.581	1.00101.71	BBBB
								1.00101.71	BBBB
ATOM	6061	CA	SER B		-21.626	69.965	45.219		
ATOM	6062	CB	SER B		-20.445	69.789	44.258	1.00102.57	BBBB
ATOM	6063	OG	SER B	291	-20.409	68.483	43.708	1.00103.70	BBBB
ATOM	6064	C	SER B		-21.730	71.437	45.607	1.00101.58	BBBB
							45.481	1.00101.71	BBBB
ATOM	6065	0	SER B		-22.790	72.050			
MOTA	6066	N	TYR B		-20.621	71.997	46.082	1.00100.88	BBBB
ATOM	6067	CA	TYR B	292	-20.571	73.404	46.454	1.00100.47	BBBB
ATOM	6068	CB	TYR B	292	-21.271	73.634	47.802	1.00102.26	BBBB
ATOM	6069	CG		292***	-20.595	73.032	49.010	1.00104.07	BBBB
								1.00104.79	BBBB
ATOM	6070	CDT	TYR B	43 <b>4</b>	-19.465	73.626	49.569	1.00104.73	

D III OM	C071	CD1	mun r						
MOTA	6071		TYR E	3 292	-18.864	73.103	50.707	1.00105.79	BBBB
ATOM	6072	CD2	TYR E	3 292	-21.107	71.888	49.621	1.00104.65	BBBB
ATOM	6073	CE2	TYR E		-20.512				
						71.355	50.761	1.00105.55	BBBB
ATOM	6074	CZ	TYR E	3 292	-19.392	71.970	51.298	1.00105.87	BBBB
ATOM	6075	OH	TYR E	292	-18.802	71.462	52.432	1.00106.78	BBBB
ATOM	6076	С	TYR E		-19.120	73.887			
							46.479	1.00 99.25	BBBB
MOTA	6077	0	TYR E	3 292	-18.196	73.080	46.405	1.00 99.29	BBBB
ATOM	6078	N	GLU E	293	-18.927	75.200	46.571	1.00 97.58	BBBB
ATOM									
	6079	CA	GLU E		-17.591	75.792	46.563	1.00 95.60	BBBB
ATOM	6080	CB	GLU E	293	-17.638	77.148	45.855	1.00 92.73	BBBB
ATOM	6081	CG	GLU E	203	-18.048	77.056	44.395		
								1.00 88.53	BBBB
MOTA	6082	CD	GLU E	3 293	-18.371	78.402	43.782	1.00 85.48	BBBB
ATOM	6083	OE1	GLU E	3 293	-17.497	79.290	43.786	1.00 82.30	BBBB
ATOM									
	6084		GLU E		-19.506	78.565	43.292	1.00 84.37	BBBB
ATOM	6085	С	GLU E	293	-16.961	75.957	47.939	1.00 96.35	BBBB
ATOM	6086	0	GLU E		-17.603	76.428			
							48.872	1.00 95.96	BBBB
ATOM	6087	N	MET E	3 294	-15.692	75.572	48.044	1.00 97.95	BBBB
MOTA	6088	CA	MET E	3 294	-14.943	75.662	49.295	1.00 99.79	BBBB
ATOM									
	6089	CB	MET E		-14.462	74.260	49.726	1.00 99.55	BBBB
ATOM	6090	CG	MET E	3 294	-13.732	74.202	51.080	1.00 99.83	BBBB
ATOM	6091	SD	MET E	201	-13.313				
						72.522	51.668	1.00 97.74	BBBB
ATOM	6092	CE	MET E	3 294	-11.629	72.356	51.084	1.00 98.77	BBBB
ATOM	6093	С	MET E	3 294	-13.750	76.610	49.134	1.00100.92	BBBB
ATOM									
	6094	0	MET E		-13.125	76.671	48.078	1.00100.28	BBBB
ATOM	6095	N	GLU E	295	-13.455	77.356	50.193	1.00103.38	BBBB
ATOM	6096	CA	GLU E		-12.347	78.307	50.206		
								1.00105.65	BBBB
ATOM	6097	CB	GLU E	3 295	-12.781	79.590	50.918	1.00106.15	BBBB
ATOM	6098	CG	GLU E	295	-11.671	80.597	51.160	1.00108.32	BBBB
MOTA	6099	CD	GLU E		-11.187	81.250	49.885	1.00109.38	BBBB
ATOM:	6100	OE1	GLU E	295	-10.317	82.144	49.962	1.00110.22	BBBB
ATOM	6101	OE2	GLU E	205	-11.680	80.869		1.00110.24	
							48.804		BBBB
ATOM	6102	С	GLU E	3 295	-11.175	77.680	50.953	1.00106.95	BBBB
ATOM	6103	0	GLU E	295	-11.361	77.099	52.022	1.00107.94	BBBB
ATOM	6104	N							
				3 296	-9.971	77.795	50.399	1.00107.83	BBBB
ATOM	6105	CA	SER E	3 296	-8.795	77.220	51.047	1.00108.43	BBBB
ATOM	6106	CB	SER E	296	-8.856	75.690	50.973	1.00108.89	
									BBBB
MOTA	6107	OG	SER E	3 296	-9.039	75.244	49.641	1.00109.75	BBBB
ATOM	6108	C	SER E	3 296	-7.464	77.713	50.482	1.00108.53	BBBB
ATOM	6109	0	SER E						
					-7.126	77.447	49.327	1.00107.82	BBBB
ATOM	6110	N	ASP E	3 297	-6.713	78.422	51.323	1.00109.22	BBBB
ATOM	6111	CA	ASP E	297	-5.409	78.978	50.963	1.00109.44	
									BBBB
MOTA	6112	CB	ASP E		-4.565	77.932	50.216	1.00110.66	BBBB
ATOM	6113	CG	ASP E	297	-3.186	78.451	49.827	1.00111.95	BBBB
ATOM	6114	ODI	ASP E		-3.106				
						79.344	48.957	1.00112.51	BBBB
ATOM	6115	OD2	ASP E	3 297	-2.180	77.965	50.390	17.00112.38	BBBB
ATOM	6116	С	ASP E	3 297	-5.588	80.225	50.104	1.00108.68	BBBB
ATOM	6117	ō	ASP E						
					-4.973	81.262	50.353	1.00108.47	BBBB
ATOM	6118	N	GLY E	3 298	-6.451	80.113	49.101	1.00107.68	BBBB
ATOM	6119	CA	GLY E	298	-6.713	81.220	48.202	1.00105.62	BBBB
ATOM	6120	С	GLY E		-7.507	80.718	47.014	1.00104.11	BBBB
ATOM	6121	0	GLY E	298	-8.373	81.417	46.488	1.00104.70	BBBB
ATOM	6122	N	ALA E		-7.209	79.492	46.594	1.00101.80	BBBB
MOTA	6123	CA	ALA E		-7.897	78.876	45.468	1.00 99.56	BBBB
ATOM	6124	CB	ALA E	299	-7.054	77.737	44.900	1.00 98.59	BBBB
MOTA	6125	C	ALA E		-9.265	78.353	45.901		
								1.00 97.89	BBBB
ATOM	6126	0	ALA E		-9.431	77.848	47.012	1.00 97.49	BBBB
ATOM	6127	N	ARG E	300	-10.243	78.478	45.014	1.00 95.44	BBBB
ATOM	6128	CA	ARG E		-11.593				
						78.019	45.300	1.00 93.08	BBBB
ATOM	6129	CB	ARG E	300	-12.580	79.095	44.851	1.00 92.25	BBBB
ATOM	6130	CG	ARG E	300	-14.040	78.808	45.121	1.00 90.36	BBBB
ATOM									
	6131	CD	ARG E		-14.845	80.091	44.952	1.00 88.32	BBBB
ATOM	6132	NE	ARG E	300	-14.621	81.016	46.059	1.00 84.35	BBBB
ATOM	6133	CZ	ARG E		-15.368				
						81.050	47.156	1.00 82.76	BBBB
MOTA	6134		ARG E		-16.391	80.217	47.289	1.00 80.39	BBBB
MOTA	6135		ARG E		-15.088	81.909	48.124	1.00 81.83	BBBB
MOTA	6136	С	ARG E		-11.832	76. <b>7</b> 02	44.565	1.00 92.13	BBBB
ATOM	6137	0	ARG E	300	-11.664	76.629	43.352	1.00 91.58	BBBB
ATOM	6138	N	ALA E		-12.208	75.663	45.305		
								1.00 91.61	BBBB
MOTA	6139	CA	ALA E		-12.445	74.345	44.720	1.00 91.67	BBBB
ATOM	6140	CB	ALA E	3 3 0 1	-11.394	73.368	45.221	1.00 91.32	BBBB
ATOM	6141	C	ALA E						
					-13.839	73.808	45.028	1.00 92.02	BBBB
ATOM	6142	0	ALA E		-14.527	74.323	45.903	1.00 92.15	BBBB
MOTA	6143	N	CYS E	3.02	-14.250	72.768	44.305	1.00 92.51	BBBB
ATOM	6144	CA	CYS E		-15.568	72.166	44.508	1.00 93.39	BBBB
ATOM	6145	С	CYS E	3 302	-15.521	71.031	45.535	1.00 94.43	BBBB

ATOM	6146	0	CYS B	302	-14.460	70.472	45.808	1.00 94.83	BBBB
ATOM	6147	CB	CYS B	302	-16.123	71.643	43.180	1.00 91.89	BBBB
ATOM	6148	SG	CYS B	302	-16.241	72.899	41.860	1.00 91.26	BBBB
ATOM	6149	N	SER B	303	-16.677	70.694	46.100	1.00 95.63	BBBB
ATOM	6150	CA	SER B		-16.764	69.642	47.111	1.00 97.03	BBBB
ATOM	6151	CB	SER B		-16.555	70.247	48.502	1.00 97.11	BBBB
ATOM	6152	OG -	SER B		-16.900	69.325	49.520	1.00 97.14	BBBB
ATOM	6153	C	SER B		-18.108	68.922	47.072	1.00 97.97	BBBB BBBB
MOTA	6154	0	SER B		-19.151	69.558	46.933 47.206	1.00 99.34 1.00 98.24	BBBB
MOTA	6155 6156	N CA	ALA B	304	-18.081 -19.307	67.597 66.799	47.183	1.00 98.24	BBBB
ATOM ATOM	6157	CB	ALA B		-19.307	65.316	47.224	1.00 98.20	BBBB
ATOM	6158	С	ALA B		-20.254	67.153	48.332	1.00 98.32	BBBB
ATOM .	6159	ō	ALA B		-19.833	67.364	49.469	1.00 97.72	BBBB
ATOM .	6160	N	CYS B		-21.543	67.207	48.020	1.00 99.11	BBBB
ATOM	6161	CA	CYS B		-22.569	67.550	48.998	1.00100.24	BBBB
ATOM	6162	С	CYS B		-22.807	66.486	50.070	1.00100.45	BBBB
ATOM	6163	0	CYS B	305	-23.212	65.362	49.771	1.00 99.80	BBBB
ATOM	6164	CB	CYS B	305	-23.884	67.865	48.268	1.00100.67	BBBB
MOTA	6165	SG	CYS B	305	-23.920	69.505	47.466	1.00101.44	BBBB
MOTA	6166	N	ALA B	306	-22.559	66.864	51.323	1.00101.02	BBBB
ATOM	6167	CA	ALA B	306	-22.739	65.975	52.470	1.00101.69	BBBB
MOTA	6168	CB	ALA B	306	-22.349	66.697	53.756	1.00101.97	BBBB
ATOM	6169	С	ALA B		-24.180	65.482	52.569	1.00102.04	BBBB
MOTA	6170	0	ALA B		-24.431	64.340	52.959	1.00102.65	BBBB
MOTA	6171	N	GLY B		-25.123	66.353	52.223	1.00101.47	BBBB
MOTA	6172	CA	GLY B		-26.531	65.992	52.261	1.00100.77	BBBB
ATOM	6173	С	GLY B		-27.269	66.762	51.183	1.00100.52	BBBB BBBB
ATOM	6174	0	GLY B		-26.654	67.194	50.206 51.330	1.00100.41	BBBB
ATOM	6175 6176	N CA	ALA B		-28.581 -29.349	66.919 67.683	50.353	1.00100.00	BBBB
ATOM ATOM	6177	CB		308	-30.843	67.539	50.623	1.00100.11	BBBB
ATOM	6178	C	ALA B		-28.896	69.129	50.571	1.00 99.19	BBBB
ATOM	6179	ŏ		308	-29.487	69.867	51.363	1.00 99.68	BBBB
ATOM	6180	N	CYS B		-27.834	69.519	49.869	1.00 98.26	BBBB
ATOM	6181	CA	CYS B	309	-27.236	70.849	49.999	1.00 96.80	BBBB
ATOM	6182	С	CYS B		-28.018	72.085	49.571	1.00 95.02	BBBB
ATOM	6183	0	CYS B	309	-29.213	72.039	49.269	1.00 94.74	BBBB
ATOM	6184	CB	CYS B	309	-25.878	70.880	49.287	1.00 97.56	BBBB
ATOM	6185	SG	CYS B	309	-25.853	70.084	47.647	1.00 98.57	BBBB
MOTA	6186	N	ARG B	310	-27.288	73.197	49.568	1.00 93.50	BBBB
MOTA	6187	CA	ARG B	310	-27.786	74.511	49.194	1.00 91.30	BBBB
MOTA	6188	CB	ARG B	310	-26.657	75.528	49.364	1.00 92.63	BBBB
ATOM	6189	CG	ARG B	310	-25.786	75.244	50.592	1.00 93.80	BBBB
MOTA	6190	CD -	"ARG" B		-24.364	75.774	50.444	1.00 93.85 0.01 94.21	BBBB
ATOM	6191	NE	ARG B	310	-23.498	75.291	51.517 51.619	0.01 94.21	BBBB BBBB
ATOM	6192 6193	CZ	ARG B	310	-22.202 -21.611	75.570 76.335	50.711	0.01 94.60	BBBB
ATOM ATOM	6194		ARG B		-21.494	75.079	52.628	0.01 94.59	BBBB
ATOM	6195	C	ARG B		-28.197	74.423	47.733	1.00 88.78	BBBB
ATOM	6196	Õ	ARG B		-27.419	73.959	46.899	1.00 89.06	BBBB
ATOM	6197	N	LYS B		-29.409	74.868	47.419	1.00 86.20	BBBB
ATOM	6198	CA	LYS B	311	-29.900	74.804	46.043	1.00 83.33	BBBB
ATOM	6199	CB	LYS B	311	-31.433	74.730	46.042	1.00 81.98	BBBB
ATOM	6200	CG	LYS B	311	-32.138	76.049	46.256	1.00 80.30	BBBB
ATOM	6201	CD	LYS B		-32.774	76.516	44.962	1.00 79.79	BBBB
ATOM	6202	CE	LYS B		-33.810	75.520	44.468	1.00 78.65	BBBB
ATOM	6203	NZ	LYS B		-34.512	75.984	43.243	1.00 79.12	BBBB
ATOM	6204	C	LYS B		-29.422	75.955	45.150	1.00 81.30	BBBB
MOTA	6205	0	LYS B		-29.561	77.130	45.491	1.00 80.79	BBBB
ATOM	6206	N	VAL B		-28.857	75.595	44.001	1.00 78.69 1.00 77.04	BBBB BBBB
ATOM	6207	CA	VAL B		-28.349	76.570 76.111	43.045 42.471	1.00 77.04	BBBB
MOTA	6208 6209	CB	VAL B		-26.997 -26.399	77.205	41.605	1.00 76.83	BBBB
ATOM	6210		VAL B		-26.054	75.753	43.607	1.00 76.21	BBBB
ATOM ATOM	6211	CGZ	VAL B		-29.342	76.771	41.896	1.00 75.82	BBBB
ATOM	6212	0	VAL B		-30.023	75.829	41.490	1.00 76.62	BBBB
ATOM	6213	N	CYS B		-29.419	77.998	41.380	1.00 73.10	BBBB
ATOM	6214	CA	CYS B		-30.336	78.328	40.287	1.00 69.11	BBBB
ATOM	6215	C	CYS B		-29.643	79.027	39.128	1.00 67.68	BBBB
ATOM	6216	Ö	CYS B		-28.899	79.991	39.332	1.00 67.77	BBBB
ATOM	6217	CB	CYS B		-31.468	79.225	40.798	1.00 67.86	BBBB
ATOM	6218	SG	CYS B		-32.502	78.447	42.073	1.00 67.91	BBBB
ATOM	6219	N	ASN B	314 .	-29.894	78.544	37.911	1.00 66.79	BBBB
ATOM	6220	CA	ASN B	314	-29.306	79.137	36.710	1.00 65.19	BBBB

ATOM	6221	CB	ASN	В	314	-29.645	78.312	35.468	1.00 65.90	BBBB
ATOM	6222	CG			314	-28.905	76.992	35.415	1.00 67.36	BBBB
ATOM	6223	OD1	ASN			-27.679	76.944	35.544	1.00 66.00	BBBB
ATOM	6224		ASN			-29.650	75.907	35.208	1.00 67.98	BBBB
ATOM	6225	С	ASN	В	314	-29.846	80.546	36.516	1.00 64.27	BBBB
ATOM	6226	0	ASN	В	314	-31.039	80.796	36.705	1.00 64.02	BBBB
ATOM	6227	N	GLY	В	315	-28.969	81.463	36.132	1.00 62.81	BBBB
ATOM	6228	CA			315	-29.394	82.832	35.923	1.00 62.27	BBBB
ATOM	6229	С			315	-29.923	83.069	34.524	1.00 61.63	BBBB
ATOM	6230	0			315	-30.139	82.130	33.762	1.00 60.61	BBBB
ATOM	6231	N			316	-30.140	84.333	34.189	1.00 61.26	BBBB
ATOM	6232	CA			316	-30.635	84.692	32.875	1.00 61.15	BBBB
MOTA	6233	CB			316	-31.347	86.061	32.911	1.00 60.46	BBBB
ATOM	6234	CG2	ILE			-31.093	86.835	31.627	1.00 60.57	BBBB
ATOM	6235	CG1	ILE	В	31.6	-32.845	85.851	33.114	1.00 59.15	BBBB
ATOM	6236	CD1	ILE	В	316	-33.200	85.270	34.438	1.00 59.51	BBBB
ATOM	6237	C			316	-29.485	84.732	31.884	1.00 61.78	BBBB
ATOM	6238	0			316	-28.439	85.313	32.159	1.00 62.20	BBBB
ATOM	6239	N			317	-29.687	84.105	30.732	1.00 63.12	BBBB
ATOM	6240	CA			317	-28.658	84.075	29.708	1.00 64.84	
ATOM	6241	С			317	-27.883	82.771	29.684	1.00 65.69	BBBB
ATOM	6242	0			317	-26.887	82.638	28.972	1.00 66.28	BBBB
ATOM	6243	N			318	-28.347	81.801	30.463	1.00 66.14	BBBB BBBB
ATOM	6244	CA			318	-27.693	80.504	30.547	1.00 67.55	BBBB
ATOM	6245	CB			318	-26.694	80.467	31.750	1.00 68.45	
ATOM	6246		ILE			-26.839	79.170	32.544	1.00 67.29	BBBB
ATOM	6247		ILE			-25.265	80.650	31.230	1.00 68.27	BBBB
ATOM	6248		ILE			-24.207	80.693	32.319	1.00 70.29	BBBB
ATOM	6249	C			318	-28.722	79.395	30.691	1.00 67.99	BBBB BBBB
ATOM	6250	ō			318	-29.704	79.540	31.419	1.00 67.99	
MOTA	6251	N			319	-28.492	78.290	29.986	1.00 68.51	BBBB
ATOM	6252	CA			319	-29.408	77.166	30.049	1.00 69.26	BBBB
ATOM	6253	C			319	-30.763	77.461	29.432	1.00 69.48	BBBB BBBB
ATOM	6254	ō			319	-30.851	77.911	28.287	1.00 68.54	
ATOM	6255	N			320	-31.824	77.203	30.193	1.00 69.59	BBBB
ATOM	6256	CA			320	-33.178	77.442	29.716	1.00 70.78	BBBB
ATOM	6257	CB			320	-34.192	76.649	30.549	1.00 70.78	BBBB
ATOM	6258	CG			320	-34.256	77.030	32.023	1.00 74.88	BBBB
ATOM	6259	CD			320	-33.161	76.385	32.873	1.00 77.60	BBBB
ATOM	6260		GLU			-31.960	76.580	32.569	1.00 77.05	BBBB
ATOM	6261		GLU			-33.509	75.684	33.856	1.00 77.65	BBBB BBBB
ATOM	6262	С			320	-33.508	78.929	29.781	1.00 77.03	BBBB
ATOM	6263	0			320	-34.662	79.329	29.613	1.00 71.21	BBBB
ATOM	6264	N			321	-32.484	79.744	30.015	1.00 70.49	BBBB
MOTA	6265		PHE			32.658	81.187	30.113	1.00 68.90	BBBB
ATOM	6266	CB	PHE		321	-32.435	81.626	31.556	1.00 68.44	BBBB
ATOM	6267	CG			321	-33.258	80.865	32.555	1.00 67.69	BBBB
MOTA	6268	CD1	PHE			-32.670	80.345	33.704	1.00 68.15	BBBB
ATOM	6269		PHE			-34.619	80.676			BBBB
ATOM	6270	CE1	PHE	В	321	-33.427	79.646	34.643	1.00 67.20	BBBB
ATOM	6271		PHE			-35.388	79.977	33.290	1.00 67.76	BBBB
ATOM	6272	CZ			321	-34.788	79.462	34.435	1.00 67.36	BBBB
ATOM	6273	С			321	-31.684	81.912	29.189	1.00 68.22	BBBB
MOTA	6274	0			321	-31.500	83.122	29.291	1.00 66.59	BBBB
MOTA	6275	N			322	-31.073	81.155	28.285	1.00 68.90	BBBB
ATOM	6276	CA			322	-30.110	81.684	27.323	1.00 70.10	BBBB
MOTA	6277	CB			322	-29.626	80.559	26.403	1.00 73.25	BBBB
ATOM	6278	CG	LYS	В	322	-28.692	81.001	25.274	1.00 77.45	BBBB
MOTA	6279	CD	LYS	В	322	-28.246	79.811	24.412	1.00 79.77	BBBB
ATOM	6280	CE			322	-29.440	79.119	23.744	1.00 81.78	BBBB
ATOM	6281	NZ	LYS	В	322	-29.046	77.957	22.891	1.00 81.06	BBBB
ATOM	6282	C	LYS	В	322	-30.706	82.798	26.475	1.00 69.43	BBBB
MOTA	6283	0			322	-30.009	83.731	26.076	1.00 69.86	BBBB
ATOM	6284	N	ASP	В	323	-32.000	82.700	26.201	1.00 67.62	BBBB
MOTA	6285	CA	ASP			-32.661	83.699	25.386	1.00 65.49	BBBB
ATOM	6286	CB			323	-33.230	83.033	24.132	1.00 67.74	BBBB
MOTA	6287	CG	ASP	В	323	-32.165	82.797	23.067	1.00 70.63	BBBB
ATOM	6288	OD1	ASP			-31.701	83.806	22.476	1.00 71.54	BBBB
MOTA	6289	OD2	ASP	В	323	-31.786	81.619	22.828	1.00 69.84	BBBB
MOTA	6290	С	ASP	В	323	-33.741	84.477	26.124	1.00 62.95	BBBB
MOTA	6291	0	ASP	В	323	-34.727	84.912	25.534	1.00 63.68	BBBB
MOTA	6292	И	SER			-33.547	84.659	27.422	1.00 58.84	BBBB
MOTA	6293	CA	SER	В	324	-34.499	85.408	28.222	1.00 55.63	BBBB
MOTA	6294	CB	SER	В	324	-34.795	84.652	29.514	1.00 55.44	BBBB
MOTA	6295	OG	SER	В	324	-35.232	83.336	29.236	1.00 52.70	BBBB

MOTA	6296	С	SER	В	324	-33.845	86.751	28.523	1.00	54.09	BBBB
ATOM	6297	0	SER			-32.691	86.792	28.928		55.19	BEBB
		N					87.849	28.322		51.47	BBBB
ATOM	6298		LEU			-34.563					
MOTA	6299	CA	LEU			-33.975	89.164	28.570		49.05	BBBB
ATOM	6300	СВ	LEU			-34.643	90.228	27.694		47.40	BBBB
ATOM	6301	CG	LEU	В	325	-34.265	90.244	26.217	1.00	45.78	BBBB
ATOM	6302	CD1	LEU	В	325	-35.076	91.293	25.502	1.00	44.92	BBBB
ATOM	6303	CD2	LEU	В	325	-32.793	90.539	26.069	1.00	46.75	BBBB
ATOM	6304	C	LEU			-34.039	89.617	30.020		47.91	BBBB
	6305	ō	LEU			-33.243	90.454	30.453		46.83	BBBB
ATOM											
ATOM	6306	N	SER			-34.978	89.059	30.771		46.46	BBBB
ATOM	6307	CA	SER			-35.142	89.460	32.155		46.06	BBBB
ATOM	6308	CB	SER	В	326	-35.831	90.834	32.195	1.00	43.30	BBBB
ATOM	6309	OG	SER	В	326	-36.329	91.133	33.487	1.00	42.62	BBBB
ATOM	6310	С	SER	В	326	-35.964	88.444	32.937	1.00	47.16	BBBB
ATOM	6311	0	SER			-36.556	87.540	32.365		46.72	BBBB
ATOM	6312	N	ILE			-35.971	88.584	34.254		48.02	BBBB
MOTA	6313	CA	ILE			-36.764	87.711	35.083		50.65	BBBB
ATOM	6314	CB	ILE			-36.442	87.919	36.585		49.79	BBBB
ATOM	6315		ILE			-37.621	87.528	37.442	1.00	49.71	BBBB
ATOM	6316	CG1	ILE	В	327	-35.225	87.079	36.972	1.00	50.62	BBBB
ATOM	6317		ILE			-34.804	87.233	38.419	0.01	50.48	BBBB
ATOM	6318	С	ILE			-38.172	88.181	34.769	1.00	53.13	BBBB
ATOM	6319	ō	ILE			-38.432	89.377	34.758		54.35	BBBB
										56.23	BBBB
ATOM	6320	N	ASN			-39.070	87.248	34.476			
ATOM	6321	CA	ASN			-40.451	87.592	34.150		57.54	BBBB
MOTA	6322	CB	ASN			-40.602	87.769	32.634		55.73	BBBB
ATOM	6323	CG	ASN	В	328	-40.293	86.504	31.871	1.00	54.33	BBBB
ATOM	6324	OD1	ASN	В	328	-40.766	85.436	32.236	1.00	53.76	BBBB
ATOM	6325	ND2	ASN	В	328	-39.510	86.619	30.804	1.00	56.09	BBBB
ATOM	6326	С	ASN			-41.437	86.532	34.648		59.49	BBBB
		ō	ASN			-41.047	85.536	35.263		59.84	BBBB
ATOM	6327										
MOTA	6328	И	ALA			-42.719	86.758	34.380		62.01	BBBB
MOTA	6329	CA	ALA			-43.775	85.838	34.796		63.43	BBBB
MOTA	6330	CB	ALA	В	329	-45.074	86.164	34.061		63.91	BBBB
ATOM	6331	C	ALA	В	329	-43.371	84.404	34.510	1.00	63.56	BBBB
ATOM	6332	0	ALA	В	329	-43.232	83.585	35.416	1.00	64.38	BBBB
ATOM	6333	N	THR			-43.182	84.113	33.233	1.00	63.44	BBBB
ATOM	6334	CA	THR			-42.790	82.788	32.799		64.49	BBBB
ATOM	6335	CB	THR			-42.465	82.823	31.305		63.43	BBBB
										62.46	BBBB
ATOM	6336	OG1				-43.589	83.368	30.608			
MOTA	6337		THR			-42.168	81.433	30.774		62.87	BBBB
MOTA	6338	С	THR	В	330	-41.595	82.229	33.582		65.88	BBBB
ATOM	6339	0	THR	В	330	-41.586	81.056	33.941	1.00	65.41	BBBB
ATOM	6340	N	ASN	В	.331	-40.605°	83.084	33.850	1.00	68.25	BBBB
ATOM	6341	CA	ASN	В	331	-39.376	82.720	34.567	1.00	68.99	BBBB
ATOM	6342	CB	ASN			-38.353	83.844	34.455		68.69	BBBB
ATOM	6343	CG	ASN			-37.844	84.013	33.066		70.30	BBBB
ATOM	6344		ASN			-37.315		32.716			BBBB
ATOM	6345	ND2	ASN			-37.988	82.975	32.255		70.51	BBBB
ATOM	6346	C	ASN	В	331	-39.526	82.394	36.038	1.00	70.04	BBBB
ATOM	6347	0	ASN	В	331	-39.348	81.254	36.440	1.00	69.17	BBBB
ATOM	6348	N	ILE	В	332	-39.807	83.425	36.831	1.00	72.29	BBBB
ATOM	6349	CA	ILE			-39.972	83.312	38.281	1.00	74.96	BBBB
ATOM	6350	СВ	ILE			-41.122	84.227	38.755		75.82	BBBB
ATOM	6351		ILE		•	-41.628	83.791	40.117		77.32	BBBB
										75.63	BBBB
ATOM	6352		ILE			-40.631	85.671	38.791			BBBB
MOTA	6353		ILE			-39.473	85.889	39.739		75.59	
ATOM	6354	С	ILE	В	332	-40.213	81.884	38.758		75.52	BBBB
ATOM	6355	0	ILE	В	332	-39.625	81.433	39.743	1.00	76.31	BBBB
ATOM	6356	N	LYS	В	333	-41.094	81.189	38.051	1.00	75.70	BBBB
ATOM	6357	CA	LYS	В	333	-41.429	79.800	38.331	1.00	74.42	BBBB
ATOM	6358	СВ	LYS			-41.973	79.186	37.034	1.00	74.76	BBBB
ATOM	6359	CG	LYS			-42.341	77.711	37.044		74.79	BBBB
										73.27	BBBB
ATOM	6360	CD	LYS			-42.914	77.321	35.677			BBBB
MOTA	6361	CE	LYS			-41.933	77.655	34.553		73.00	
MOTA	6362	NZ	LYS			-42.501	77.500	33.186		72.02	BBBB
MOTA	6363	С	LYS	В	333	-40.205	79.020	38.830	1.00	73.34	BBBB
ATOM	6364	0	LYS	В	333	-40.314	78.182	39.716	1.00	73.79	BBBB
ATOM	6365	N	HIS			-39.039	79.337	38.279	1.00	72.05	BBBB
ATOM	6366	CA	HIS			-37.799	78.649	38.615		71.32	BBBB
ATOM	6367	CB	HIS			-36.996	78.413			73.14	BBBB
		CG				-37.741		36.277		74.90	BBBB
ATOM	6368		HIS				77.654				BBBB
MOTA	6369				334 -	-38.698	78.049			74.74	
ATOM	6370	ND1	HIS	В	334	-37.546	76.309	36.049	1.00	75.57	BBBB

ATOM	6371			В 334	-38.351	75.908	35.081	1.00 76.00	BBBB
ATOM ATOM	6372 6373		HIS		-39.061	76.944	34.672	1.00 75.62	BEBB
ATOM	6374	C O	HIS	B 334 B 334	-36.874 -35.777	79.311 78.810	39.632	1.00 70.54	BBBB
ATOM	6375	N		B 335	-37.281	80.415	39.871 40.241	1.00 71.01 1.00 69.54	BBB <b>B</b> BBB <b>B</b>
MOTA	6376	CA	PHE	B 335	-36.380	81.073	41.187	1.00 69.65	BBBB
ATOM	6377	CB		B 335	-36.107	82.516	40.738	1.00 67.18	BBBB
ATOM ATOM	6378 6379	CG		B 335	-35.473	82.613	39.384	1.00 63.02	BBBB
ATOM	6380			B 335 B 335	~36.240 ~34.101	82.485	38.233	1.00 61.32	BBBB
ATOM	6381			B 335	-35.651	82.777 82.514	39.259 36.973	1.00 61.48 1.00 60.12	BBBB
MOTA	6382			B 335	-33.501	82.807	38.003	1.00 61.68	BBBB BBBB
ATOM ATOM	6383	CZ		B 335	-34.282	82.674	36.857	1.00 60.22	BEBB
ATOM	6384 6385	C 0		B 335 B 335	-36.796 -36.300	81.071	42.656	1.00 70.97	BBBB
MOTA	6386	N		B 336	-37.684	81.882 80.154	43.447 43.029	1.00 72.11 1.00 71.52	BBBB
MOTA	6387	CA		B 336	-38.141	80.076	44.411	1.00 71.65	BBBB BBBB
ATOM ATOM	6388 6389	CB		B 336	-39.522	79.405	44.473	1.00 72.51	BBBB
ATOM	6390	CG		B 336 B 336	-40.445	79.952	45.570	1.00 74.09	BBBB
ATOM	6391	CE		B 336	-39.840 -40.657	79.791 80.516	46.964 48.024	1.00 75.52 1.00 75.95	BBBB
ATOM	6392	NZ		B 336	-40.000	80.486	49.365	1.00 76.46	BBBB BBBB
ATOM	6393	C		B 336	-37.131	79.304	45.268	1.00 70.97	BBBB
ATOM ATOM	6394 6395	о 0		B 336	-36.532	78.333	44.810	1.00 70.63	BBBB
ATOM	6396	CA		B 337 B 337	-36.941 -36.020	79.758 79.126	46.505 47.447	1.00 71.06	BBBB
ATOM	6397	СВ		B 337	-36.512	77.725	47.824	1.00 70.74 1.00 73.65	BBBB BBBB
ATOM	6398	CG		B 337	-37.395	77.722	49.062	1.00 75.89	BBBB
ATOM ATOM	6399 6400		ASN		-38.374	78.464	49.143	1.00 78.26	BBBB
ATOM	6401	С	ASN	B 337	-37.053 -34.579	76.876	50.032	1.00 76.63	BBBB
ATOM	6402	ō		B 337	-33.809	79.027 78.228	46.969 47.496	1.00 69.04 1.00 69.63	BBBB
ATOM	6403	N		B 338	-34.207	79.818	45.970	1.00 67.23	BBBB BBBB
ATOM ATOM	6404	CA		B 338	-32.831	79.783	45.494	1.00 64.97	BBBB
ATOM	6405 6406	С О		B 338	-31.959 -32.382	80.370	46.593	1.00 63.49	BBBB
ATOM	6407	CB	CYS		-32.680	81.267 80.592	47.318 44.208	1.00 63.64 1.00 65.09	BBBB BBBB
ATOM	6408	SG	CYS		-33.662	79.937	42.823	1.00 65.86	BBBB
ATOM ATOM	6409 6410	N	THR I		-30.747	79.852	46.725	1.00 61.37	BBBB
ATOM	6411	CA CB		B 339	-29.827 -29.361	80.315 79.129	47.753	1.00 59.44	BBBB
ATOM	6412		THR I		-30.490	78.604	48.610 49.322	1.00 60.39 1.00 62.68	BBBB BBBB
ATOM	6413	CG2	THR I		-28.278	79.552	49.599	1.00 60.13	BBBB
ATOM ATOM	6414 6415	С 0		3 3 3 9	-28.632	80.982	47.109	1.00 57.10	BBBB
ATOM	6416	N		339 340	-27.916 -28.433	81.771	47.732	1.00 55.60	BBBB
ATOM	6417	CA		3 340	-27.335	80.655 81.198	45.840 45.067	1.00 55.47 1.00 52.65	BBBB BBBB
ATOM	6418	CB		3 3 4 0	-26.119	80.282	45.195	1.00 52.72	BBBB
ATOM ATOM	6419 6420	OG C	SER E		-25.039	80.758	44.419	1.00 53.47	BBBB
ATOM	6421	0		340 340	-27.756 -28.515	81.281 80.432	43.611	1.00 51.70	BBBB
ATOM	6422	N	ILE E		-27.290	82.310	43.129 42.913	1.00 52.16 1.00 48.37	BBBB BBBB
ATOM	6423	CA		341	-27.595	82.428	41.499	1.00 46.41	BBBB
ATOM ATOM	6424 6425	CB	ILE E		-28.124	83.829	41.115	1.00 44.81	BBBB
ATOM	6426	CG1	ILE E	3 341	-28.282 -29.466	83.929 84.095	39.607 41.801	1.00 43.61	BBBB
MOTA	6427	CD1	ILE E	3 341	-30.562	83.124	41.457	1.00 44.09 1.00 42.13	BBBB BBBB
ATOM	6428	C	ILE E		-26.292	82.163	40.758	1.00 46.70	BBBB
ATOM ATOM	6429 <b>6430</b>	O N	ILE E		-25.331	82.921	40.887	1.00 44.95	BBBB
ATOM	6431	CA	SER E		-26.256 -25.067	81.065 80.716	40.006	1.00 47.12	BBBB
ATOM	6432	СВ	SER E		-24.948	79.198	39.245 39.046	1.00 47.33 1.00 46.09	BBBB BBB <b>B</b>
ATOM	6433	OG	SER E		-23.688	78.872	38.478	1.00 42.37	BBBB
ATOM ATOM	6434	C	SER E		-25.272	81.384	37.919	1.00 47.98	BBBB
ATOM ATOM	6435 6436	0 N	SER E		-26.023 -24.617	80.894	37.079	1.00 49.60	BBBB
ATOM	6437	CA	GLY E		-24.617 -24.784	82.517 83.234	37.731 36.483	1.00 48.46 1.00 46.97	BBBB BBBB
ATOM	6438	С	GLY E	343	-25.197	84.666	36.745	1.00 45.82	BBBB
ATOM ATOM	6439		GLY E		-24.599	85.328	37.595	1.00 46.58	BBBB
ATOM ATOM	6440 6441		ASP E		-26.230	85.143	36.055	1.00 43.09	BBBB
ATOM	6442		ASP E		-26.639 -26.204	86.529 87.322	36.228 35.003	1.00 40.82 1.00 41.30	BBBB BBBB
ATOM	6443	CG	ASP B	344	-24.790	86.989	34.571	1.00 41.30	BBBB
ATOM ATOM	6444	OD1	ASP B	344	-24.578	86.677	33.383	1.00 45.28	BBBB
ATOM	6445	OD2	ASP B	344	-23.883	87.040	35.417	1.00 41.93	BBBB

ATOM	6446	С	ASP	В	344	-28.119	86.766	36.471	1.00 39.81		BBBB
		Ö	ASP			-28.953	85.922	36.186	1.00 41.14		BBBB
ATOM	6447						87.930		1.00 38.89		BBBB
ATOM	6448	N	LEU			-28.435		37.020			
ATOM	6449	CA	LEU			-29.818	88.314	37.252	1.00 37.49		BBBB
MOTA	6450	CB	LEU	В	345	-30.067	88.604	38.727	1.00 36.92		BBBB
MOTA	6451	CG	LEU	В	345	-30.288	87.396	39.616	1.00 37.97		BBBB
ATOM	6452	CD1	LEU	В	345	-30.541	87.856	41.033	1.00 39.49		BBBB
ATOM	6453	CD2	LEU	В	345	-31.476	86.599	39.103	1.00 40.67		BBBB
ATOM	6454	C	LEU			-30.048	89.586	36.448	1.00 37.47		BBBB
ATOM	6455	ŏ	LEU			-29.285	90.541	36.570	1.00 37.68		BBBB
									1.00 37.72		BBBB
ATOM	6456	N	HIS			-31.079	89.582	35.611			
ATOM	6457	CA	HIS			-31.429	90.746	34.801	1.00 37.67		BBBB
MOTA	6458	CB	HIS			-31.434	90.429	33.307	1.00 36.92		BBBB
ATOM	6459	CG	HIS	В	346	-30.110	90.046	32.735	1.00 37.35		BBBB
ATOM	6460	CD2	HIS	В	346	-29.166	89.180	33.164	1.00 35.34		BBBB
ATOM	6461	ND1	HIS	В	346	-29.673	90.519	31.512	1.00 36.70		BBBB
ATOM	6462		HIS			-28.517	89.958	31.214	1.00 32.70		BBBB
ATOM	6463		HIS			-28.188	89.141	32.200	1.00 37.32		BBBB
							91.169	35.138	1.00 37.84		BBBB
ATOM	6464	C	HIS			-32.852					
ATOM	6465	0	HIS			-33.773	90.367	35.034	1.00 36.38		BBBB
MOTA	6466	N	ILE	В	347	-33.044	92.419	35.536	1.00 37.99		BBBB
ATOM	6467	CA	ILE	В	347	-34.391	92.893	35.812	1.00 38.63		BBBB
ATOM	6468	CB	ILE	В	347	-34.563	93.388	37.265	1.00 39.62		BBBB
ATOM	6469	CG2	ILE			-36.053	93.566	37.567	1.00 38.72		BBBB
ATOM	6470		ILE			-33.943	92.402	38.257	1.00 37.69		BBBB
									1.00 37.71		BBBB
ATOM	6471		ILE			-34.788	91.219	38.557			
ATOM	6472	С			347	-34.603	94.086	34.887	1.00 39.40		BBBB
ATOM	6473	0	ILE	В	347	-34.034	95.148	35.115	1.00 38.62		BBBB
ATOM	6474	N	LEU	В	348	-35.399	93.919	33.837	1.00 41.41		BBBB
MOTA	6475	CA	LEU	В	348	-35.651	95.035	32.923	1.00 43.56		BBBB
ATOM	6476	СВ			348	-35.387	94.630	31.474	1.00 40.60		BBBB
		CG			348	-34.055	93.968	31.150	1.00 38.94		BBBB
ATOM	6477								1.00 35.54		BBBB
MOTA	6478		LEU			-33.827	94.053	29.668			
ATOM	6479		LEU			-32.938	94.643	31.889	1.00 40.21		BBBB
ATOM	6480	С	LEU	В	348	-37.088	95.524	33.045	1.00 45.21		BBBB
ATOM	6481	0	LEU	В	348	-37.908	94.880	33.690	1.00 46.03		BBBB
ATOM	6482	N	PRO	В	349	-37.401	96.689	32.451	1.00 46.16		BBBB
ATOM	6483	CD	PRO	В	349	-36.475	97.653	31.829	1.00 46.64		BBBB
ATOM	6484	CA			349	-38.757	97.236	32.507	1.00 46.98		BBBB
		CB			349	-38.654	98.481	31.641	1.00 45.66		BBBB
ATOM	6485								1.00 45.66		BBBB
ATOM	6486	CG			349	-37.257	98.936	31.877			
ATOM	6487	С			349	-39.732	96.219	31.926	1.00 49.72		BBBB
ATOM	6488	0	PRO	В	349	-40.873	96.094	32.364	1.00 49.86	٠	BBBB
ATOM	6489	N	VAL	В	350	-39.250	95.479	30.940	1.00 52.51		BBBB
ATOM	6490	CA	VAL	В	350	-40.044	94.469	30.265	1700 56.07		BBBB
ATOM	6491	CB	VAL	В	350	-39.166	93.685	29.275	1.00 58.54		BBBB
ATOM	6492		VAL			-40.041	92.967	28.242	1.00 57.79		BBBB
	6493		VAL			-38.164	94.647	28.609	1.00 58.65		BBBB
MOTA						-40.675		31.249	1.00 57.28		BBBB
MOTA	6494				350		93.494				
ATOM	6495	0			350	-41.759	92.965	31.011	1.00 58.21		BBBB
ATOM	6496	N	ALA	В	351	-39.999	93.258	32.360	1.00 57.61		BBBB
ATOM	6497	CA			351	-40.516	92.333	33.349	1.00 59.85		BBBB
ATOM	6498	CB	ALA	В	351	-39.651	92.365	34.593	1.00 57.77		BBBB
ATOM	6499	С			351	-41.962	92.638	33.718	1.00 62.52		BBBB
ATOM	6500	ō			351	-42.878	91.895	33.346	1.00 62.99		BBBB
ATOM	6501	N			352	-42.146	93.743	34.440	1.00 64.49		BBBB
		CA			352	-43.448	94.193	34.936	1.00 65.64		BBBB
ATOM	6502								1.00 65.23		BBBB
ATOM	6503	CB			352	-43.239	95.354	35.911			
ATOM	6504	CG			352	-42.092	95.158	36.862	1.00 64.95		BBBB
ATOM	6505		PHE			-40.961	95.966	36.781	1.00 65.73		BBBB
ATOM	6506	CD2	PHE	В	352	-42.145	94.186	37.853	1.00 65.57		BBBB
ATOM	6507				352	-39.899	95.810	37.676	1.00 65.39		BBBB
ATOM	6508		PHE			-41.085	94.022	38.755	1.00 65.60		BBBB
					352	-39.962	94.837	38.664	1.00 64.57		BBBB
ATOM	6509	CZ							1.00 66.84		BBBB
ATOM	6510	C			352	-44.478	94.614	33.878			
ATOM	6511	0			352	-45.683	94.446	34.065	1.00 66.54		BBBB
ATOM	6512	N	ARG	В	353	-44.000	95.177	32.779	1.00 68.46		BBBB
ATOM	6513	CA	ARG	В	353	-44.870	95.632	31.706	1.00 70.48		BBBB
ATOM	6514	СВ			353	-44.106	96.631	30.830	1.00 72.39		BBBB
ATOM	6515	CG			353	-44.833	97.163	29.599	1.00 73.98		BBBB
ATOM	6516	CD			353	-43.823	97.864	28.692	1.00 76.48		BBBB
						-42.956	98.755	29.464	1.00 78.86		BBBB
ATOM	6517	NE			353				1.00 79.62		BBBB
ATOM	6518	CZ			353	-41.774	99.213	29.053			
ATOM	6519				353	-41.297	98.867	27.863	1.00 79.42		BBBB
ATOM	6520	NH2	ARG	В	353	-41.065	100.022	29.839	1.00 78.85		BBBB

DECM.	6501	~	700	_	252					
ATOM	6521	С			353	-45.356	94.460	30.861	1.00 71.10	BBBB
MOTA	6522	0	ARG	В	353	-46.522	94.404	30.479	1.00 72.29	BBBB
ATOM	6523	N	GLY	₿	354	-44.459	93.526	30.569	1.00 71.17	BBBB
ATOM	6524	CA			354	-44.827	92.383			
ATOM	6525	C			354	_		29.755	1.00 71.01	BBBB
						-44.459		28.297	1.00 71.35	BBBB
ATOM	6526	0			354	-44.590	93.698	27.767	1.00 72.45	BBBB
ATOM	6527	N	ASP	₿	355	-43.993	91.539	27.642	1.00 71.22	BBBB
ATOM	6528	CA	ASP	R	355	-43.607	91.636			
ATOM	6529	CB			355			26.242	1.00 71.80	BBBB
						-42.170	91.139	26.050	1.00 71.41	BBBB
ATOM	6530	CG	ASP	В	355	-41.627	91.437	24.665	1.00 71.30	BBBB
ATOM	6531	OD1	ASP	В	355	-41.852	92.562	24.171	1.00 71.37	
ATOM	6532		ASP			-40.962				BBBB
ATOM	6533						90.558	24.077	1.00 70.73	BBBB
		С			355	-44.561	90.795	25.425	1.00 72.88	BBBB
ATOM	6534	0	ASP	В	355	-44.912	89.685	25.818	1.00 72.62	BBBB
ATOM	6535	N	SER	В	356	-44.989	91.325	24.288	1.00 74.27	
ATOM	6536	CA			356	-45.915				BBBB
ATOM	6537						90.598	23.436	1.00 75.18	BBBB
		CB			356	-46.923	91.559	22.809	1.00 76.41	BBBB
ATOM	6538	OG	SER	В	356	-47.651	92.245	23.814	1.00 76.96	BBBB
ATOM	6539	C	SER	В	356	-45.179	89.852	22.345	1.00 75.07	BBBB
ATOM	6540	0			356	-45.703				
ATOM							88.901	21.774	1.00 75.98	BBBB
	6541	N	PHE			-43.960	90.280	22.052	1.00 74.54	BBBB
ATOM	6542	CA	PHE			-43.194	89.620	21.012	1.00 74.60	BBBB
ATOM	6543	CB	PHE	В	357	-41.962	90.440	20.648	1.00 74.47	
ATOM	6544	CG	PHE			-41.234				BBBB
							89.919	19.450	1.00 75.82	BBBB
ATOM	6545		PHE		357	-41.823	89.967	18.193	1.00 76.15	BBBB
ATOM	6546	CD2	PHE	В	357	-39.968	89.359	19.576	1.00 76.65	BBBB
ATOM	6547	CE1	PHE	В	357	-41.158	89.463	17.073		
ATOM	6548		PHE						1.00 77.05	BBBB
						-39.293	88.851	18.460	1.00 76.83	BBBB
ATOM	6549	CZ	PHE		357	-39.889	88.903	17.209	1.00 76.17	BBBB
ATOM	6550	C	PHE	В	357	-42.769	88.227	21.460	1.00 74.37	BBBB
ATOM	6551	0	PHE	R	357	-42.473	87.364	20.634		
ATOM	6552	N	THR						1.00 74.95	BBBB
						-42.737	88.009	22.769	1.00 73.05	BBBB
ATOM	6553	CA	THR		358	-42.344	86.714	23.297	1.00 71:85	BBBB
ATOM	6554	CB	THR	В	358	-41.027	86.808	24.075	1.00 71.47	BBBB
ATOM	6555	OG1	THR	В	358	-41.195	87.689	25.191		
ATOM	6556		THR						1.00 72.16	BBBB
						-39.916	87.329	23.174	1.00 69.25	BBBB
ATOM	6557	С	THR	В	358	-43.430	86.188	24.215	1.00 72.42	BBBB
ATOM	6558	0	THR	В	358	-43.167	85.416	25.137	1.00 73.02	BBBB
ATOM	6559	N	HIS	В	359	-44.654	86.628	23.950		
ATOM	6560	CA	HIS						1.00 71.96	BBBB
						-45.828	86.220	24.709	1.00 72.06	BBBB
ATOM	6561	CB	HIS	В	359	-46.379	84.911	24.135	1.00 72.11	BBBB
ATOM	6562	CG	HIS	В	359	-46.495	84.907	22.637	1.00 72.57	BBBB
ATOM	6563	CD2	HIS	R	359	-47.468	85.370	21.814		
ATOM	6564								1.00 71.73	BBBB
			HIS			-45.513	84.393	21.814	1.00 71.52	BBBB
MOTA	6565				359 -	-45.877	84.538	20.551	1.00 70.99	BBBB
ATOM	6566	NE2	HIS	В	359	-47.059	85.129	20.524	1.00 70.90	BBBB
ATOM	6567	С	HIS	R	359	-45.543	86.063	26.202	1.00 72.48	
ATOM	6568	0	HIS							BBBB
						-45.907	85.059	26.809	1.00 73.32	BBBB
ATOM	6569	N	THR			-44.903	87.069	26.788	1.00 72.39	BBBB
ATOM	657Q	CA	THR	В	360	-44.559	87.044	28.203	1.00 72.95	BBBB
ATOM	6571	CB	THR	В	360	-43.116	87.540	28.436	1.00 72.89	BBBB
ATOM	6572	OG1	THR			-42.203	86.722			
ATOM								27.696	1.00 72.57	BBBB
	6573		THR			-42.762	87.486	29.917	1.00 71.39	BBBB
ATOM	6574	С	THR	В	360	-45.496	87.901	29.043	1.00 73.52	BBBB
ATOM	6575	0	THR	В	360	-45.364	89.122	29.099	1.00 73.76	BBBB
ATOM	6576	N	PRO	R	361	-46.448	87.263	29.727		
ATOM	6577	CD	PRO						1.00 73.90	BB <b>BB</b>
						-46.605	85.802	29.802	1.00 73.55	BBBB
ATOM	6578	CA	PRO	В	361	-47.425	87.943	30.582	1.00 74.77	BBBB
ATOM	6579	CB	PRO	₿	361	-48.066	86.795	31.342	1.00 74.38	BBBB
ATOM	6580	CG	PRO	В	361	-47.987	85.663	30.366	1.00 74.87	
ATOM	6581	C	PRO							BBBB
						-46.759	88.926	31.535	1.00 75.61	BBBB
ATOM	6582	0	PRO			-45.588	88.780	31.863	1.00 75.65	BBBB
ATOM	6583	N	PRO	В	362	-47.499	89.949	31.985	1.00 77.07	BBBB
ATOM	6584	CD	PRO	В	362	-48.844	90.368	31.558	1.00 78.27	
ATOM	6585	CA	PRO							BEBB
						-46.927	90.926	32.912	1.00 77.74	BBBB
ATOM	6586	CB	PRO			-48.112	91.813	33.252	1.00 76.80	BBBB
ATOM	6587	CG	PRO	₿	362	-48.872	91.825	31.979	1.00 78.02	BBBB
MOTA	6588	С	PRO			-46.428	90.165	34.118	1.00 79.03	
ATOM	6589	Ö	PRO							BBBB
						-46.618	88.954	34.204	1.00 79.95	BBBB
ATOM	6590		LEU			-45.803	90.869	35.051	1.00 79.98	BBBB
ATOM	6591	CA	LEU	В	363	-45.268	90.233	36.243	1.00 81.06	BBBB
ATOM	6592		LEU			-43.747	90.403	36.282	1.00 81.12	BBBB
ATOM	6593		LEU							
						-42.999	89.928	37.528	1.00 80.63	BBBB
ATOM	6594		LEU			~43.116	88.423	37.672	1.00 80.83	BBBB
ATOM	6595	CD2	LEU	В	363	-41.543	90.331	37.415	1.00 80.32	BBBB

ATOM	6596	С	LEU	ъ	363	-45.882	90.846	37.483	1.00 82.19	BBBB
ATOM	6597	0	LEU	В	363	-46.203	92.030	37.502	1.00 83.41	BBBB
ATOM	6598	N	ASP	В	364	-46.050	90.037	38.519	1.00 83.55	BBBB
ATOM	6599	CA	ASP			-46.617	90.528	39.764	1.00 84.60	BBBB
MOTA	6600	CB	ASP		364	-47.372	89.411	40.489	1.00 85.44	BBBB
ATOM	6601	CG	ASP	В	364	-48.242	89.935	41.617	1.00 86.10	BBBB
MOTA	6602	OD1	ASP	R	364	-49.197	90.680	41.322	1.00 87.19	BBBB
ATOM	6603	OD2	ASP			-47.976	89.610	42.795	1.00 86.13	BBBB
MOTA	6604	С	ASP	В	364	-45.463	91.016	40.627	1.00 85.05	BBBB
ATOM	6605	0	ASP	R	364	-44.800	90.225	41.296	1.00 85.63	BBBB
									1.00 85.17	BBBB
ATOM	6606	N			365	-45.205	92.332	40.620		
MOTA	6607	CD	PRO	В	365	-46.013	93.373	39.962	1.00 85.04	BBBB
ATOM	6608	CA	PRO	В	365	-44.123	92.938	41.401	1.00 84.74	BBBB
ATOM	6609	CB	PRO	D	365	-44.581	94.382	41.530	1.00 84.81	BBBB
ATOM	6610	CG	PRO	В	365	-45.175	94.623	40.178	1.00 85.52	BBBB
ATOM	6611	С	PRO	В	365	-43.846	92.281	42.752	1.00 83.78	BBBB
ATOM	6612	0	PRO	В	365	-42.689	92.106	43.131	1.00 83.90	BBBB
									1.00 82.56	BBBB
ATOM	6613	И	GLN		366	-44.905	91.914	43.468		
MOTA	6614	CA	GLN	В	366	-44.764	91.280	44.778	1.00 81.82	BBBB
ATOM	6615	CB	GLN	Ŕ	366	-46.148	90.956	45.354	1.00 81.66	BBBB
								46.344	0.01 82.94	BBBB
ATOM	6616	CG	GLN		366	-46.681	91.978			
ATOM	6617	CD	GLN	В	366	-45.930	91.954	47.660	0.01 83.37	BBBB
MOTA	6618	OE1	GLN	В	366	-45.825	90.913	48.310	0.01 83.75	BBBB
ATOM			GLN		366	-45.406	93.105	48.064	0.01 83.73	BBBB
	6619									
ATOM	6620	С	GLN	В	366	-43.915	90.005	44.746	1.00 80.95	BBBB
ATOM	6621	0	GLN	В	366	-43.226	89.687	45.720	1.00 80.86	BBBB
			GLU		367	-43.962	89.291	43.623	1.00 78.78	BBBB
ATOM	6622	N								
ATOM	6623	CA	GLU	В	367	-43.234	88.038	43.454	1.00 76.74	BBBB
ATOM	6624	CB	GLU	В	367	-43.643	87.380	42.142	1.00 78.24	BBBB
ATOM	6625	CG	GLU	B	367	-44.939	86.607	42.227	1.00 81.24	BBBB
ATOM	6626	CD	GLU		367	-45.306	85.963	40.910	1.00 83.42	BBBB
ATOM	6627	OE1	GLU	В	367	-45.836	86.669	40.021	1.00 84.43	BBBB
ATOM	6628	OF 2	GLU	R	367	-45.048	84.749	40.760	1.00 84.59	BBBB
										BBBB
MOTA	6629	С			367	-41.713	88.089	43.524	1.00 74.99	
ATOM	6630	0	GLU	В	367	-41.072	87.084	43.840	1.00 74.19	BBBB
ATOM	6631	N	LEU	В	368	-41.126	89.242	43.224	1.00 72.65	BBBB
					368	-39.677	89.354	43.269	1.00 70.20	BBBB
ATOM	6632	CA								
ATOM	6633	CB	LEU	В	368	-39.220	90.729	42.780	1.00 68.68	BBBB
ATOM	6634	CG	LEU	В	368	-39.114	90.923	41.267	1.00 68.10	BBBB
ATOM	6635		LEU			-38.431	92.245	40.978	1.00 68.41	BBBB
MOTA	6636	CD2	LEU	В	368	-38.317	89.790	40.647	1.00 67.31	BBBB
MOTA	6637	С	LEU	В	368	-39.109	89.098	44.658	1.00 69.69	BBBB
ATOM	6638	Ō			368	-37.902	88.937	44.815	1.00 70.52	BBBB
ATOM	6639	N			369	-39.970	89.047	45.667	1.00 68.60	BBBB
ATOM -	6640	· CA	ASP	В	369	-39.504	7887824	47.028	1.00 67.47	BBBB-
ATOM	6641	СВ	ASP	B	369	-40.575	89.252	48.026	1.00 70.43	BBBB
									1.00 72.86	BBBB
ATOM	6642	CG	ASP		369	-40.708	90.757	48.116		
ATOM	6643	OD1	ASP	В	369	-39.914	91.380	48.860	1.00 73.78	BBBB
ATOM	6644	OD2	ASP	В	369	-41.593	91.313	47.428	1.00 73.69	BBBB
ATOM	6645	c			369	-39.091	87.394	47.302	1.00 65.62	BBBB
MOTA	6646	0	ASP	В	369	-38.666	87.075	48.409	1.00 65.86	BBBB
MOTA	6647	N	ILE	В	370	-39.222	86.532	46.301	1.00 63.55	BBBB
ATOM	6648	CA			370	-38.833	85.137	46.465	1.00 61.49	BBBB
									1.00 61.61	BBBB
MOTA	6649	CB			370	-39.453	84.227	45.384		
ATOM	6650	CG2	ILE	В	370	-40.967	84.362	45.400	1.00 63.52	BBBB
MOTA	6651	CG1	ILE	В	370	-38.917	84.602	44.005	1.00 61.59	BBBB
ATOM	6652				370	-39.303	83.622	42.925	1.00 60.11	BBBB
MOTA	6653	С			370	-37.324	85.066	46.349	1.00 59.95	BBBB
ATOM	6654	0	ILE	В	370	-36.698	84.089	46.747	1.00 60.10	BBBB
ATOM	6655	N	LEU	В	371	-36.750	86.123	45.791	1.00 58.52	BBBB
									1.00 55.37	BBBB
MOTA	6656	CA			371	-35.313	86.218	45.610		
ATOM	6657	CB	LEU	В	371	-34.993	87.299	44.584	1.00 54.84	BBBB
ATOM	6658	CG	LEU	В	371	-35.384	86.999	43.139	1.00 52.80	BBBB
					371	-35.222	88.254	42.284	1.00 52.53	BBBB
ATOM	6659									
ATOM	6660	CD2	LEU	В	371	-34.517	85.881	42.614	1.00 50.84	BBBB
ATOM	6661	C	LEU	В	371	-34.676	86.567	46.936	1.00 53.36	BBBB
ATOM	6662	ō			371	-33.462	86.535	47.083	1.00 50.47	BBBB
ATOM	6663	N			372	-35.516	86.895	47.906	1.00 54.16	BBBB
ATOM	6664	CA	LYS	В	372	-35.041	87.270	49.233	1.00 55.59	BBBB
ATOM	6665	CB			372	-36.227	87.484	50.167	1.00 54.68	BBBB
										BBBB
ATOM	6666	CG			372	-35.914	88.386	51.330	1.00 57.77	
ATOM	6667	CD	LYS	В	372	-36.204	89.824	50.972	1.00 60.93	BBBB
ATOM	6668	CE			372	-37.704	90.048	50.835	1.00 62.27	BBBB
									1.00 63.40	BBBB
ATOM	6669	N2			372	-38.402	89.697	52.099		
ATOM	6670	С	LYS	В	372	-34.109	86.206	49.830	1.00 55.27	BBBB

ATOM	6671	0	LYS E	372	-33.309	86.484	50.723	1.00 54.59	BBBB
ATOM	6672	N	THR F	3 373	-34.207	84.988	49.323		
ATOM	6673							1.00 55.06	BBBB
		CA		3 373	-33.389	83.905	49.833	1.00 54.96	BBBB
MOTA	6674	CB		3 373	-34.134	82.574	49.686	1.00 55.97	BBBB
ATOM	6675	OG1	THR E	3 373	-33.229	81.495	49.936	1.00 62.53	BBBB
ATOM	6676	CG2	THR E	3 3 7 3	-34.716	82.442	48.299		
ATOM	6677	C						1.00 55.92	BBBB
				3 373	-32.007	83.807	49.179	1.00 53.43	BBBB
ATOM	6678	0	THR E	373	-31.152	83.052	49.642	1.00 53.17	BBBB
ATOM	6679	N	VAL E	3 374	-31.787	84.590	48.124	1.00 51.45	BBBB
ATOM	6680	CA	VAL I		-30.518				
						84.595	47.407	1.00 48.64	BBBB
ATOM	6681	CB	VAL E		-30.667	85.236	46.017	1.00 47.47	BBBB
ATOM	6682	CG1	VAL I	3 374	-29.332	85.206	45.282	1.00 45.33	BBBB
ATOM	6683	CG2	VAL E	3 374	-31.739	84.517	45.228	1.00 45.40	BBBB
ATOM	6684	C	VAL E		-29.440	85.365	48.158		
ATOM								1.00 49.63	BBBB
	6685	0	VAL E		-29.594	86.553	48.415	1.00 49.58	BBBB
ATOM	6686	N	LYS E	3 375	-28.343	84.685	48.488	1.00 50.20	BBBB
ATOM	6687	CA	LYS E	3 375	-27.234	85.297	49.213	1.00 50.22	BBBB
ATOM	6688	CB	LYS E	3 375	-26.820	84.425	50.396		
ATOM	6689							1.00 51.97	BBBB
		CG	LYS E		-27.853	84.305	51.480	1.00 54.96	BBBB
ATOM	6690	CD	LYS E	3 375	-27.419	83.273	52.499	1.00 59.62	BBBB
ATOM	6691	CE	LYS E	375	-28.167	83.449	53.804	1.00 62.95	BBBB
ATOM	6692	NZ	LYS E		-27.880	84.800			
ATOM	6693						54.377	1.00 65.62	BBBB
		C	LYS E		-26.037	85.457	48.305	1.00 49.83	BBBB
MOTA	6694	0	LYS E	3 375	-25.112	86.215	48.606	1.00 48.44	BBBB
ATOM	6695	N	GLU F	376	-26.052	84.732	47.193	1.00 50.21	BBBB
ATOM	6696	CA	GLU E		-24.942	84.791	46.254		
ATOM	6697	CB	GLU E					1.00 51.14	BBBB
					-24.020	83.594	46.474	1.00 55.61	BBBB
ATOM	6698	CG	GLU E	376	-22.902	83.459	45.451	1.00 60.50	BBBB
ATOM	6699	CD	GLU E	376	-22.300	82.064	45.444	1.00 65.37	BBBB
ATOM	6700	OF.1	GLU E		-21.301	81.842	44.716	1.00 66.83	
ATOM	6701		GLU E						BBBB
					-22.838	81.188	46.166	1.00 67.46	BBBB
ATOM	6702	С	GLU E	376	-25.325	84.841	44.783	1.00 49.06	BBBB
ATOM	6703	0	GLU E	376	-26.266	84.183	44.341	1.00 47.80	BBBB
ATOM	6704	N	ILE E	3 377	-24.560	85.632	44.040	1.00 47.93	BBBB
ATOM	6705	CA	ILE E						
					-24.727	85.791	42.606	1.00 45.52	BBBB
ATOM	6706	CB	ILE E		-25.285	87.192	42.244	1.00 45.16	BBBB
ATOM	6707	CG2	ITE.E	377	-25.300	87.371	40.725	1.00 45.48	BBBB
ATOM	6708	CG1	ILE E	3 377	-26.709	87.347	42.781	1.00 42.80	BBBB
ATOM	6709		ILE E						
					-27.348	88.659	42.402	1.00 40.17	BBBB
ATOM	6710	С	ILE E		-23.351	85.607	41.979	1.00 44.14	BBBB
ATOM	6711	0	ILE E	3 377	-22.461	86.446	42.140	1.00 43.23	BBBB
ATOM	6712	N	THR E	378	-23.192	84.490	41.279	1.00 44.98	BBBB
MOTA	6713	CA	THR E		-21.943	84.117			
ATOM	6714	CB					40.618	1.00 46.49	BBBB
			THR E		-22.095	82.772	39.891	1.00 48.76	BBBB
ATOM -	6715		THRE		-22.284	81.729	40.856	1.00 51.00	BBBB
ATOM	6716	CG2	THR E	378	-20.856	82.472	39.061	1.00 51.82	BBBB
ATOM	6717	С	THR E	378	-21.450	85.140	39.614	1.00 46.16	BBBB
ATOM	6718	0	THR E		-20.265				
ATOM						85.465	39.579	1.00 46.58	BBBB
	6719	N	GLY E		-22.361	85.633	38.783	1.00 46.65	BBBB
ATOM	6720	CA	GLY E	379	-21.989	86.628	37.792	1.00 45.78	BBBB
ATOM	6721	С	GLY E	379	-22.309	88.051	38.221	1.00 44.57	BBBB
ATOM	6722	0	GLY E		-21.880	88.517	39.286	1.00 44.55	
ATOM	6723	N	PHE E						BBBB
					-23.077	88.748	37.389	1.00 42.91	BBBB
ATOM	6724	CA	PHE E		-23.446	90.125	37.676	1.00 40.19	BBBB
ATOM	6725	CB	PHE E	380	-23.024	91.023	36.515	1.00 39.56	вввв
ATOM	6726	CG	PHE E	380	-23.781	90.771	35.234	1.00 40.45	BBBB
ATOM	6727		PHE E		-25.090				
						91.215	35.078	1.00 39.81	BBBB
MOTA	6728		PHE E		-23.158	90.148	34.154	1.00 40.54	BBBB
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ATOM	6731	CZ	PHE E		-25.122	90.441	32.807		
			PHE E					1.00 37.85	BBBB
ATOM	6732	C			-24.928	90.328	37.948	1.00 38.50	BBBB
MOTA	6733	0	PHE E		-25.762	89.477	37.624	1.00 38.31	BBBB
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ATOM	6735	CA	LEU E		-26.594	91.879	38.859	1.00 34.17	BBBB
ATOM	6736	CB	LEU E						
					-26.745	92.152	40.352	1.00 31.41	BBBB
ATOM	6737	CG	LEU E		-28.053	92.826	40.771	1.00 33.07	BBBB
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ATOM	6740	C	LEU E		-26.923	93.151			
							38.072	1.00 34.39	BBBB
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ATOM	6743	CA	LEU E	382	-28.295	94.221	36.360	1.00 34.29	BBBB
ATOM	6744	CB	LEU E		-28.189	93.918	34.864	1.00 32.33	
ATOM	6745	CG	LEU B						BBBB
111 011	5,45	CG	TEA B	. 502	-28.790	94.950	33.903	1.00 32.01	BBBB

ATOM	6746	CD1	LEU	В	382	-27.973	96.243	33.966	1.00	30.40	BBBB
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ATOM	6750	N.	ILE		383	-29.946		37.200		32.32	BBBB
ATOM	6751	CA	ILE		383	-31.285		37.534		32.90	BBBB
ATOM	6752	СВ	ILE		383	-31.393		39.042		33.30	BBBB
ATOM	6753		ILE		383	-32.714		39.380		30.60	BBBB
ATOM	6754		ILE		383	-31.222		39.775		30.66	BBBB
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										32.04	BBBB
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MOTA	6758	N	GLN		384	-32.599		35.854			
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MOTA	6781	CZ2	TRP	В	386	-35.903	95.078	44.289	1.00	51.35	BBBB
ATOM	6782	CZ3	TRP	В	386	-35.541		41.997	1.00	51.76	BBBB
ATOM	6783		TRP		386	-35.496		43.385	1.00	51.13	BBBB
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ATOM	6786	N	PRO		387	-40.271		41.044	1.00	54.73	BBBB
MOTA	6787	CD	PRO		387	-39.898		41.769	1.00	55.80	BBBB
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ATOM	6789	CB			387	-42.080		42.374	1.00	56.06	BBBB
ATOM	6790	TCG T			387				1.00	56.16	
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ATOM	6793	N			388		100.104	41.522		62.17	BBBB
ATOM	6794	CA		_	388		101.470	42.005		65.59	BBBB
ATOM	6795	CB			388		102.207	41.216		69.38	BBBB
ATOM	6796	CG			388		102.365	39.720		74.69	BBBB
ATOM	6797	CD			388		103.241	39.444		77.95	BBBB
ATOM	6798		GLU				103.304	38.267		79.91	BBBB
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ATOM	6800	C			388		101.492	43.499		65.36	BBBB
ATOM	6801	0			388		102.417	44.214		64.98	BBBB
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ATOM	6804	CB			389	-45.423		45.516		67.95	BBBB
ATOM	6805	CG			389	-46.132		46.844		70.36	BBBB
										70.58	BBBB
ATOM	6806 6807		ASN			-46.855 -45.942		47.294 47.479		71.79	BBBB
ATOM	6807				389		100.699	46.276		64.96	BBBB
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ATOM	6810	N			390		100.201	45.912			BBBB
ATOM	6811	CA			390	-40.678		46.683		60.82	BBBB
ATOM	6812	CB			390	-40.015		46.037		62.41	
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MOTA	6814	CD			390	-40.493		47.622		65.63	BBBB
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ATOM	6816	CZ			390	-42.466		47.875		70.05	BBBB
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ATOM	6821	N	THR B	391	-39.221	101.281	47.919	1.00	55.87	BBBB
ATOM	6822	CA	THR B	391	-38.274	102.378	48.068	1 00	53.51	BBBB
ATOM	6823	CB								
			THR B		-38.663		49.278	T.00	55.34	BBBB
ATOM	6824	OG1	THR B	391	-38.906	102.429	50.426	1.00	56.31	BBBB
ATOM	6825	CG2	THR B	391	-39.922	104 057	48.964		53.61	BBBB
ATOM	6826	C								
			THR B			101.956	48.174	1.00	52.09	BBBB
ATOM	6827	0	THR B	391	-35.899	102.805	48.170	1.00	51.90	BBBB
ATOM	6828	N	ASP B	392	-36 551	100.651	48.276			
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ATOM	6829	CA	ASP B	392	-35.187	100.115	48.335	1.00	47.81	BBBB
ATOM	6830	CB	ASP B	392	-34.687	99.999	49.798	1 00	47.01	BBBB
MOTA	6831									
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ATOM	6832	OD1	ASP B	392	-35.303	98.991	51.881	1.00	42.74	BBBB
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ATOM	6836	N								
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ATOM	6837	CA	LEU B	393	-33.931	96.959	46.578	1.00	43.60	BBBB
ATOM	6838	CB	LEU B	393	-32.556	96.751	45.947	1 00	40.44	BBBB
MOTA	6839	CG	LEU B	393	-32.165	97.843	44.946	1.00	37.72	BBBB
MOTA	6840	CD1	LEU B	393	-30.779	97.583	44.399	1.00	36.18	BBBB
MOTA	6841		LEU B		-33.186	97.895				
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ATOM	6845	CA	HIS B	394	-35.940	94.985	49.136	1.00	47.88	BBBB
ATOM	6846	CB	HIS B	394	-37.458	95.141	49.274	1 00	47.78	BBBB
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ATOM	6848	CD2	HIS B	394	-38.791	93.484	50.766	1.00	48.27	BBBB
ATOM	6849		HIS B		-37.757					
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ATOM	6850	CE1	HIS B	394	-38.351	94.399	52.714	1.00	47.96	BBBB
ATOM	6851	NEC	HIS B	394	-38.985	93.399	52.125	1 00	50.60	BBBB
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ATOM	6853	0	HIS B	394	-34.955	92.906	49.815	1.00	48.81	BBBB
ATOM	6854	N	ALA B	395	-36.059	92.930	47.850			
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MOTA	6855	CA	ALA B	395	-35.834	91.514	47.591	1.00	46.34	BBBB
ATOM	6856	CB	ALA B	395	-36.439	91.138	46.245	1.00	45.22	BBBB
ATOM	6857	С	ALA B							
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ATOM	6859	N	PHE B	396	-33.431	91.998	47.623	1 00	43.04	BBBB
ATOM	6860	CA								
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ATOM	6861	CB	PHE B	396	-31.245	92.386	46.584	1.00	40.33	BBBB
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MOTA	6863		PHE B		-31.076	90.505	44.943	1.00	41.35	BBBB
ATOM	6864	CD2	PHE B	396	-32.097	92.551	44.246	1.00	39.20	BBBB
MOTA	6865	CEI	PHE B	396	-31.298	89.952	43.682		42.94	"BBBB"
MOTA	6866		PHE B		-32.327	92.011	42.983	1.00	42.03	BBBB
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ATOM	6868	С	PHE B	396	-31.380	92.054	49.042	1 00	43.30	BBBB
ATOM	6869	ō								
		U	PHE B		-30.164	92.201	49.145	1.00	42.10	BBBB
ATOM	6870	N	GLU B	397	-32.204	92.214	50.072	1.00	45.16	BBBB
MOTA	6871	CA	GLU B	397	-31.700	92.567	51.397		48.33	BBBB
MOTA	6872	CB	GLU B	391	-32.879	92.846	52.349	1.00	50.79	BBBB
ATOM	6873	CG	GLU B	397	-33.894	91.707	52.475	1.00	53.54	BBBB
ATOM	6874	CD	GLU B		-35.073	92.052	53.392		56.85	BBBB
ATOM	6875		GLU B		-35.909	91.154	53.645	1.00	57.95	BBBB
ATOM	6876	OE2	GLU B	397	-35.167	93.214	53.860	1.00	57.50	BBBB
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MOTA	6878	0	GLU B	397	-30.060	91.778	52.989	1.00	47.29	BBBB
MOTA	6879	N	ASN B	398	-30.739	90.305	51.456	1.00	47.84	BBBB
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MOTA	6882	CG	ASN B	398	-31.787	88.166	53.216	1.00	49.30	BBBB
ATOM	6883		ASN B						51.07	
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ATOM	6886									
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ATOM	6887	N	LEU B	399	-28.621	89.555	49.935	1.00	43.63	BBBB
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MOTA	6889	CB	LEU B		-27.684	90.219	47.780	1.00	37.65	BBBB
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ATOM	6891		LEU B		-26.860	88.603	46.134			BBBB
									31.30	
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ATOM	6893	С	LEU B	399	-26.197	89.814	49.740	1.00	40.33	BBBB
<b>Σ</b> ጥ Ο Μ		0	T.PH P	390	-26 077	90 916	50 100	1 00	20 17	ממממ
ATOM ATOM	6894 6895	0 N	LEU B		-26.077 -25.234	90.946 88.900	50.188 49.809		39.17 42.82	BBBB BBBB

ATOM	6896	CA	GLU	В	400	-23.956	89.153	50.475	1.00 42.80	BBBB
ATOM	6897	CB	GLU		400	-23.689	88.090	51.546	1.00 45.26	BBBB
MOTA	6898	CG	GLU		400	-24.930	87.429	52.152	1.00 48.87	BBBB
ATOM	6899	CD	GLU	В	400	-24.590	86.267	53.087	1.00 51.78	BBBB
ATOM	6900	OE1	GLU	В	400	-25.526	85.543	53.515	1.00 51.57	BBBB
ATOM	6901	OE 2	GLU	В	400	-23.388	86.081	53.394	1.00 51.61	BBBB
ATOM	6902	C	GLU			-22.801	89.113	49.502	1.00 41.76	BBBB
ATOM	6903	0	GLU		400	-21.797	89.786	49.708	1.00 42.02	BBBB
ATOM	6904	N	ILE	В	401	-22.949	88.321	48.441	1.00 41.77	BBBB
ATOM	6905	CA	ILE	В	401	-21.885	88.154	47.453	1.00 40.52	BBBB
ATOM	6906	CB	ILE			-21.196	86.772	47.619	1.00 41.29	BBBB
ATOM	6907		ILE			-19.938	86.697	46.758	1.00 39.42	BBBB
ATOM	6908	CG1	ILE	В	401	-20.834	86.539	49.082	1.00 44.31	BBBB
ATOM	6909	CD1	ILE	В	401	-20.242	85.170	49.351	1.00 47.18	BBBB
ATOM	6910	С	ILE	В	401	-22.270	88.248	45.977	1.00 39.81	BBBB
ATOM	6911	ō	ILE			-23.274	87.682	45.539	1.00 39.51	BBBB
ATOM	6912	N	ILE			-21.438	88.958	45.223	1.00 37.78	BBBB
ATOM	6913	CA	ILE	В	402	-21.581	89.090	43.780	1.00 37.35	BBBB
ATOM	6914	CB	ILE	В	402	-21.975	90.536	43.323	1.00 35.22	BBBB
ATOM	6915	CG2	ILE	В	402	-22.105	90.569	41.808	1.00 32.69	BBBB
ATOM	6916		ILE			-23.322	90.958	43.917	1.00 34.24	BBBB
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ATOM	6917		ILE			-23.733	92.378	43.553	1.00 31.98	
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MOTA	6919	0	ILE	В	402	-19.256	89.615	43.508	1.00 38.52	BBBB
ATOM	6920	N	ARG	В	403	-19.942	87.663	42.661	1.00 38.43	BBBB
ATOM	6921	CA	ARG			-18.596	87.343	42.208	1.00 40.22	. BBBB
ATOM	6922	CB	ARG			-18.436	85.827	42.060	1.00 40.88	BBBB
MOTA	6923	CG	ARG	В	403	-18.675	85.129	43.378	1.00 40.11	BBBB
ATOM	6924	CD	ARG	В	403	-18.276	83.671	43.406	1.00 44.54	BBBB
ATOM	6925	NE	ARG	R	403	-18.598	83.125	44.723	1.00 46.61	BBBB
	6926	CZ	ARG		403	-17.938	83.428	45.834	1.00 45.82	BBBB
ATOM										
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ATOM	6928	NH2	ARG	В	403	-18.359	82.959	46.997	1.00 45.94	BBBB
ATOM	6929	С	ARG	В	403	-18.192	88.061	40.932	1.00 41.88	BBBB
ATOM	6930	0	ARG	R	403	-17.042	88.491	40.803	1.00 44.56	BBBB
		N	GLY			-19.125	88.198	39.992	1.00 41.51	BBBB
ATOM	6931									
MOTA	6932	CA	GLY		404	-18.822	88.901	38.757	1.00 38.91	BBBB
ATOM	6933	С	GLY	В	404	-17.971	88.120	37.779	1.00 38.00	BBBB
MOTA	6934	0	GLY	В	404	-17.163	88.693	37.047	1.00 36.22	BBBB
ATOM	6935	N			405	-18.156	86.806	37.756	1.00 38.70	BBBB
	6936	CA			405	-17.389	85.969	36.844	1.00 39.49	BBBB
ATOM										
ATOM	6937	CB			405	-17.634	84.493	37.158	1.00 38.96	BBBB
MOTA	6938	CG	ARG	В	405	-17.008	84.084	38.482	1.00 40.18	BBBB
ATOM	6939	CD	ARG	В	405	-17.285	82.638	38.830	1.00 44.87	BBBB
ATOM	6940	NE	ARG	- <sub>R</sub> -	405	-16.886	82.343	40.207	1.00 46.94	BBBB
		CZ			405	-17.357	81.321	40.914	1.00 46.56	BBBB
ATOM	6941									
ATOM	6942		ARG			-18.235	80.492	40.368	1.00 45.71	BBBB
ATOM	6943	NH2	ARG	В	405	-16.985	81.149	42.175	1.00 46.42	BBBB
ATOM	6944	С	ARG	В	405	-17.789	86.312	35.420	1.00 39.86	BBBB
ATOM	6945	0			405	-17.064	86.053	34.465	1.00 40.56	BBBB
ATOM	6946	N			406	-18.960	86.917	35.300	1.00 40.15	BBBB
ATOM	6947	CA			406	-19.493	87.349	34.028	1.00 38.73	BBBB
ATOM	6948	СВ			406	-20.703	86.510	33.633	1.00 38.35	BBBB
ATOM	6949	OG1	THR	В	406	-21.579	86.399	34.757	1.00 40.45	BBBB
ATOM	6950	CG2	THR	В	406	-20.279	85.122	33.199	1.00 37.02	BBBB
MOTA	6951	С			406	-19.917	88.766	34.355	1.00 40.18	BBBB
		0			406	-20.298	89.041	35.482	1.00 40.56	BBBB
ATOM	6952									
ATOM	6953	N			407	-19.844	89.669	33.389	1.00 40.80	BBBB
MOTA	6954	CA	LYS	В	407	-20.201	91.051	33.642	1.00 41.10	BBBB
ATOM	6955	CB	LYS	В	407	-18.929	91.871	33.816	1.00 41.66	BBBB
ATOM	6956	CG	LYS	В	407	-17.879	91.166	34.608	1.00 41.33	BBBB
ATOM	6957	CD	LYS			-16.566	91.903	34.529	1.00 42.57	BBBB
								35.251	1.00 41.59	BBBB
ATOM	6958	CE	LYS			-15.462	91.142			
ATOM	6959	NZ			407	-14.148	91.764	34.936	1.00 45.32	BBBB
MOTA	6960	С	LYS	В	407	~21.018	91.628	32.491	1.00 42.17	BBBB
ATOM	6961	0	LYS	В	407	-20.843	91.224	31.335	1.00 43.24	BBBB
ATOM	6962	N			408	-21.911	92.564	32.809	1.00 40.01	BBBB
					408	-22.722	93.195	31.782	1.00 38.32	BBBB
ATOM	6963	CA								
MOTA	6964	CB			408	-23.832	94.048	32.391	1.00 38.29	. BBBB
ATOM	6965	CG	GLN	В	408	-24.484	94.982	31.390	1.00 39.28	BBBB
ATOM	6966	CD	GLN	В	408	-25.340	94.264	30.365	1.00 41.49	BBBB
ATOM	6967		GLN			-24.975	93.200	29.859	1.00 40.36	BBBB
			GLN				94.856		1.00 41.31	BBBB
ATOM	6968					-26.487		30.040		
MOTA	6969	С			408	-21.798	94.063	30.961	1.00 37.50	BBBB
ATOM	6970	0	GLN	В	408	-21.079	94.908	31.503	1.00 36.28	BBBB

ATOM	6971	N	HIS	R	409	-21.825	93.831	29.650	1 00	38.03		BBBB
ATOM	6972	CA										
			HIS			-20.993	94.538	28.682	1.00	38.12		BBBB
ATOM	6973	CB	HIS	В	409	-21.302	96.033	28.704	1.00	38.22		BBBB
ATOM	6974	CG	HIS	В	409	-22.647	96.364	28.129	1 00	40.86		BBBB
ATOM	6975		HIS									
					409	-23.429	95.687	27.252		39.33		BBBB
ATOM	6976	NDl	HIS	В	409	-23.362	97.487	28.493	1.00	39.97		BBBB
ATOM	6977	CE.1	HIS	В	409	-24.527	97.481	27.871	1 00	41.23		BBBB
ATOM	6978		HIS		409	-24.593	96.400	27.113	1.00	38.79		BBBB
ATOM	6979	С	HIS	В	409	-19.523	94.281	28.930	1.00	39.37		BBBB
ATOM	6980	0	HIS	В	409	-18.663	95.023	28.460		41.26		BBBB
ATOM	6981	N	GLY		410	-19.239	93.201	29.652	1.00	39.38		BBBB
ATOM	6982	CA	GLY	В	410	-17.870	92.854	29.945	1.00	40.69		BBBB
ATOM	6983	С	GLY	R	410	-17.256	93.844	30.910		42.15		BBBB
ATOM	6984	0	GLY	В	410	-16.042	93.914	31.050	1.00	43.09		BBBB
ATOM	6985	N	GLN	В	411	-18.083	94.618	31.597	1.00	43.04		BBBB
ATOM	6986	CA	GLN	P	411	-17.521	95.579	32.525		42.50		
												BBBB
ATOM	6987	CB	GLN	В	411	-17.524	96.973	31.908	1.00	41.87		BBBB
ATOM	6988	CG	GLN	В	411	-16.871	98.002	32.801	1.00	43.73		BBBB
ATOM	6989	CD	GLN		411	-16.766	99.347					
								32.144		46.19		BBBB
ATOM	6990	OE1	GLN	В	411	-16.684	99.441	30.918	1.00	50.30		BBBB
ATOM	6991	NE2	GLN	В	411	-16.746	100.404	32.948	1.00	46.99		BBBB
ATOM	6992	С	GLN		411	-18.163						
							95.660	33.899		42.41		BBBB
ATOM	6993	0	GLN	В	411	-17.471	95.942	34.881	1.00	43.77		BBBB
MOTA	6994	N	PHE	В	412	-19.459	95.391	33.998	1.00	40.67		BBBB
ATOM	6995											
		CA	PHE		412	-20.095	95.555	35.292		38.97		BBBB
ATOM	6996	CB	PHE	В	412	-21.125	96.675	35.211	1.00	36.67		BBBB
ATOM	6997	CG	PHE	R	412	-20.634	97.905	34.507	1 00	36.34		BBBB
ATOM	6998	CD1	PHE		412	-20.598	97.959	33.110	1.00	37.08		BBBB
ATOM	6999	CD2	PHE	В	412	-20.264	99.037	35.229	1.00	37.04		BBBB
ATOM	7000	CE1	PHE	B	412	-20.213	99.130	32.445		36.17		BBBB
ATOM	7001	CE2	PHE	В	412	-19.876	100.217	34.571	1.00	36.51		BBBB
ATOM	7002	CZ	PHE	В	412	-19.854	100.263	33.182	1.00	34.91		BBBB
ATOM	7003	С	PHE	В	412	-20.732	94.354	35.943		40.01		BBBB
ATOM	7004	0	PHE	В	412	-21.360	93.516	35.291	1.00	41.72		BBBB
ATOM	7005	N	SER	В	413	-20.571	94.293	37.260	1.00	39.28		BBBB
ATOM	7006	CA	SER	В	413	-21.124	93.209	38.049		37.66		BBBB
MOTA	7007	CB	SER	В	413	-20.056	92.661	39.000	1.00	39.67		BBBB
ATOM	7008	OG	SER	В	413	-19.203	93.697	39.459	1.00	41.64		BBBB
ATOM	7009	С	SER	R	413	-22.336	93.728	38.811		35.28		BBBB
MOTA	7010	0	SER		413	-23.185	92.949	39.230	1.00	34.67		BBBB
ATOM	7011	N	LEU	В	414	-22.395	95.044	39.006	1.00	32.55		BBBB
MOTA	7012	CA	LEU		414	-23.541	95.675	39.665		32.56		BBBB
MOTA	7013	CB	LEU	В	414	-23.245	96.091	41.110	1.00	31.14		BBBB
ATOM	7014	CG	LEU	В	414	-24.531	96.537	41.821	1.00	29.60		BBBB
ATOM	7015	CD1			414	-25.481	95.354				<b></b>	
								41.901		30.38		BBBB
ATOM	7016	CD2	LEU	В	414	-24.247	97.069	43.198	1.00	25.24		BBBB
ATOM	7017	С	LEU	В	414	-23.948	96.916	38.861	1.00	34.14		BBBB
ATOM	7018	0	LEU			-23.169	97.860	38.678				
										33.24		BBBB
ATOM	7019	N	ALA	В	415 ·	-25.174	96.882	38.358	1.00	34.74		BBBB
ATOM	7020	CA	ALA	В	415	-25.707	97.973	37.573	1.00	34.11		BBBB
ATOM	7021	CB			415	-25.638		36.108		34.15		BBBB
MOTA	7022	C			415	-27.146	98.227	37.987	1.00	34.36		BBBB
ATOM	7023	0	ALA	В	415	-28.049	97.447	37.678	1.00	34.06		BBBB
ATOM	7024	N			416	-27.339		38.725		33.37		BBBB
ATOM	7025	CA			416	-28.655		39.166		33.91		BBBB
ATOM	7026	CB	VAL	В	416	-28.692	99.876	40.676	1.00	31.46		BBBB
ATOM	7027	CG1	VAL	R	416		100.166	41.130		30.77		BBBB
ATOM	7028		VAL			-28.178	98.610	41.328		31.56		BBBB
ATOM	7029	С	VAL	В	416	-28.808	101.039	38.461	1.00	35.77		BBBB
ATOM	7030	0	VAT.	В	416	-28 041	101.974	38.716		37.67		BBBB
	7031											
ATOM		И			417	-29.780	101.115	37.55 <b>5</b>	1.00	35.55		BBBB
ATOM	7032	CA	VAL	В	417	-29.984	102.320	36.762	1.00	34.87		BBBB
ATOM	7033	CB			417		102.108	35.331		33.89		BBBB
ATOM	7034		VAL				103.292	34.469	T.00	37.18		BBBB
ATOM	7035	CG2	VAL	В	417	-27.937	101.906	35.360	1.00	33.52		BBBB
ATOM	7036	C			417		102.843	36.628				
										35.87		BBBB
ATOM	7037	0			417	-32.366	102.081	36.460	1.00	35.70		BBBB
ATOM	7038	N	SER	В	418	-31.523	104.165	36.694	1.00	37.69		BBBB
ATOM	7039	CA.			418		104.879	36.521				
										38.58		BBBB
MOTA	7040	CB			418	-33.088	105.012	35.030	1.00	39.14		BBBB
ATOM	7041	OG	SER	В	418	-33.352	103.745	34.471	1.00	38.70		BBBB
ATOM	7042	c			418		104.333	37.216				
										38.89		BBBB
ATOM	7043	0			418	-35.050	104.140	36.587	1.00	38.12		BBBB
ATOM	7044	N	LEU	В	419	-33.905	104.113	38.520	1.00	40.62		BBBB
ATOM	7045	CA			419		103.602	39.308		41.29		BBBB
•		•						33.300	4.00	33.43		بالالالالا

ATOM	7046	СВ	LEU B	419	-34.535	102.463	40.204	1.00 40.51	BBBB
ATOM	7047	CG	LEU B		-33.874	101.261	39.541	1.00 37.61	BBBB
ATOM	7048		LEU B		-33.539		40.632	1.00 38.77	BBBB
ATOM	7049		LEU B		-34.808		38.506	1.00 36.23	BBBB
ATOM	7050	C	LEU B		-35.527		40.172	1.00 42.06	BBBB
ATOM	7051	ō	LEU B		-34.879		40.248	1.00 42.42	BBBB
ATOM	7052	N	ASN B		-36.672		40.823	1.00 43.61	BBBB
ATOM	7053	CA	ASN B		-37.240		41.691	1.00 45.79	BBBB
					-38.769		41.482	1.00 49.03	BBBB
MOTA	7054	CB	ASN B					1.00 43.03	BBBB
ATOM	7055	CG	ASN B		-39.147		40.156		
ATOM	7056		ASN B		-38.557		39.771	1.00 54.41	BBBB
ATOM	7057		ASN B		-40.155		39.464	1.00 54.96	BBBB
ATOM	7058	С	ASN B		-36.973		43.174	1.00 45.79	BBBB
MOTA	7059	0	ASN B		-37.564		44.039	1.00 46.59	BBBB
ATOM	7060	N	ILE B		-36.102		43.472	1.00 45.70	BBBB
MOTA	7061	CA	ILE B		-35.786		44.865	1.00 43.29	BBBB
ATOM	7062	CB	ILE B	421	-34.838		44.962	1.00 42.43	BBBB
ATOM	7063	CG2	ILE B	421	-35.518	101.536	44.423	1.00 43.00	BBBB
ATOM	7064	CG1	ILE B	421	-33.540	103.068	44.216	1.00 41.33	BBBB
MOTA	7065	CD1	ILE B	421	-32.463	102.043	44.428	1.00 41.72	BBBB
ATOM	7066	С	ILE B	421	-35.134	105.123	45.652	1.00 44.00	BBBB
ATOM	7067	0	ILE B		-34.467	106.001	45.088	1.00 41.88	BBBB
ATOM	7068	N	THR B		-35.320		46.967	1.00 44.20	BBBB
ATOM	7069	CA	THR B		-34.773		47.843	1.00 45.31	BBBB
ATOM	7070	CB	THR B		-35.752		48.970	1.00 46.63	BBBB
ATOM	7071	OG1			-36.990		48.397	1.00 48.59	BBBB
	7072		THR B		-35.210		49.851	1.00 47.47	BBBB
ATOM								1.00 43.69	BBBB
ATOM	7073	C	THR B		-33.437		48.442 48.747	1.00 43.45	BBBB
ATOM	7074	0	THR B		-32.591				BBBB
ATOM	7075	И	SER B		-33.253		48.601	1.00 41.95	
ATOM	7076	CA	SER B		-32.014		49.157	1.00 40.37	BBBB
ATOM	7077	CB	SER B		-32.095		50.686	1.00 39.55	BBBB
ATOM	7078	OG	SER B		-33.187		51.113	1.00 36.55	BBBB
ATOM	7079	С	SER B		-31.755		48.608	1.00 38.66	BBBB
ATOM	7080	0	SER B	423	-32.689		48.383	1.00 38.58	BBBB
ATOM	7081	N	LEU B	424	-30.485	102.143	48.393	1.00 35.73	BBBB
MOTA	7082	CA	LEU B	424	-30.135	100.838	47.863	1.00 33.90	BBBB
ATOM	7083	CB	LEU B	424	-28.613	100.732	47.715	1.00 31.12	BBBB
ATOM	7084	CG	LEU B	424	-28.110	101.651	46.590	1.00 29.08	BBBB
ATOM	7085	CD1	LEU B	424	-26.649	101.444	46.328	1.00 27.70	BBBB
ATOM	7086	CD2	LEU B	424	-28.880	101.334	45.331	1.00 27.18	BBBB
ATOM	7087	С	LEU B	424	-30.709	99.705	48.717	1.00 33.70	BBBB
ATOM	7088	0	LEU B	424	-31.399	98.811	48.194	1.00 33.18	BBBB
ATOM	7089	N	GLY B	425	-30.447	99.756	50.024	1.00 32.88	BBBB
ATOM	7090	CA	GLY B		-30.960	98.747	50.939	1.00 29.79	BBBB
ATOM	7091	C	GLY B		-30.222	97.424	50.897	1.00 31.08	BBBB
ATOM	7092	ŏ	GLY B		-30.730	96.406	51.364	1.00 32.47	BBBB
ATOM	7093	N	LEU B		-29.029	97.421	50.315	1.00 31.57	BBBB
ATOM	7094	CA	LEU B		-28.238	96.202	50.237		BBBB
ATOM	7095	CB	LEU B		-27.327	96.262	49.005	1.00 32.16	BBBB
ATOM	7096	CG	LEU B		-28.052			1.00 31.86	BBBB
ATOM	7090		LEU B		-27.029		46.544	1.00 29.93	BBBB
	7098		LEU B		-28.933			1.00 28.80	BBBB
ATOM					-27.426	96.061	51.536	1.00 34.66	BBBB
ATOM	7099	C	LEU B			96.076		1.00 31.92	BBBB
ATOM	7100	0	LEU B		-26.190			1.00 37.23	BBBB
MOTA	7101	N	ARG B		-28.156	95.928		1.00 40.49	BBBB
MOTA	7102	CA	ARG B		-27.583	95.791	53.989		
ATOM	7103	CB	ARG B		-28.703	95.711	55.026	1.00 38.97	BBBB
ATOM	7104	CG	ARG B		-29.521	96.984	55.139	1.00 43.44	BBBB
ATOM	7105	CD	ARG B		-30.537	96.904	56.263	1.00 44.85	BBBB
ATOM	7106	NE	ARG B		-31.448	95.776	56.088	1.00 50.19	BBBB
ATOM	7107	CZ	ARG E	427	-32.435	95.735	55.199	1.00 52:96	BBBB
MOTA	7108		ARG E		-32.657	96.770	54.390	1.00 54.03	BBBB
ATOM	7109	NH2	ARG E	427	-33.196	94.650		1.00 54.60	BBBB
ATOM	7110	C	ARG E	3 427	-26.615	94.617	54.208	1.00 41.40	BBBB
ATOM	7111	0	ARG E	427	-25.656	94.747	54.970	1.00 41.09	BBBB
MOTA	7112	N	SER E		-26.858	93.485	53.551	1.00 40.93	BBBB
ATOM	7113	CA	SER E		-25.984		53.703	1.00 42.78	BBBB
ATOM	7114	CB	SER E		-26.783		53.486	1.00 42.04	BBBB
ATOM	7115	OG	SER E		-27.983		54.220	1.00 42.76	BBBB
ATOM	7116	C	SER E		-24.786		52.746	1.00 43.63	BBBB
ATOM	7117	ŏ	SER E		-23.813				BBBB
ATOM	7118	N	LEU E		-24.855			1.00 44.54	BBBB
ATOM	7119	CA	LEU E		-23.779			1.00 44.94	BBBB
MOTA	7120	CB	LEU E		-24.018		49.689	1.00 43.34	BBBB
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ATOM	7121	CG	LEU B	429	-23.141	94.250	48.436	1.00 42.06	BBBB
ATOM	7122		LEU B		~23.158	92.891	47.768	1.00 39.39	BEBB
ATOM	7123	CD2	LEU B	429	-23.650	95.321	47.491	1.00 40.98	BBBB
ATOM	7124	C	LEU B	429	-22.410	93.259	51.370	1.00 45.50	BBBB
ATOM	7125	0	LEU B		-22.132	94.236	52.055	1.00 45.45	BBBB
ATOM	7126	N	LYS B		-21.551	92.271	51.151	1.00 47.66	BBBB
ATOM	7127	CA	LYS B		-20.224	92.293	51.742	1.00 49.16	BBBB
ATOM	7128	CB	LYS B		-20.109	91.187	52.795	1.00 52.11	BBBB
ATOM	7129	CG	LYS B		-19.854	91.720	54.197	1.00 57.92	BBBB
ATOM	7130	CD	LYS B		-20.897	92.774	54.615	1.00 59.69	BBBB
ATOM ATOM	7131 7132	CE NZ	LYS B		-20.422		55.819	1.00 60.90	BBBB
ATOM	7132	C	LYS B		-19.212	94.434	55.509	1.00 60.86	BBBB
ATOM	7134	0	LYS B		-19.077	92.182	50.755	1.00 48.01	BBBB
ATOM	7135	И	GLU B		-17.950 -19.347		51.080	1.00 47.79	BEBB
ATOM	7136	CA	GLU B		-19.347	91.698 91.565	49.549 48.568	1.00 48.09 1.00 47.33	BBBB
ATOM	7137	CB	GLU B		-17.497	90:264	48.806	1.00 47.33	BBBB BBBB
ATOM	7138	CG	GLU B		-16.239	90.134	47.958	1.00 53.48	BBBB
ATOM	7139	CD	GLU B		-15.623		48.015	1.00 56.84	BBBB
MOTA	7140		GLU B		-14.551	88.539	47.387	1.00 55.24	BBBB
ATOM	7141		GLU B		-16.215		48.687	1.00 58.61	BBBB
MOTA	7142	С	GLU B		-18.720		47.114	1.00 45.05	BBBB
ATOM	7143	0	GLU B	431	-19.751	91.040	46.741	1.00 45.88	BBBB
ATOM	7144	N	ILE B		-17.917	92.264	46.299	1.00 42.64	BBBB
MOTA	7145	CA	ILE B	432	-18.145	92.364	44.868	1.00 41.60	BBBB
ATOM	7146	CB	ILE B	432	-18.502	93.812	44.453	1.00 42.27	BBBB
ATOM	7147		ILE B		-18.656	93.912	42.945	1.00 42.11	BBBB
ATOM	7148		ILE B		-19.820	94.223	45.104	1.00 39.65	BBBB
ATOM	7149		ILE B		-20.177	95.670	44.864	1.00 44.05	BBBB
ATOM	7150	С	ILE B		-16.771	91.960	44.374	1.00 41.16	BBBB
ATOM	7151	0	ILE B		-15.881	92.789	44.177	1.00 41.25	BBBB
MOTA	7152	N	SER B		-16.606	90.652	44.228	1.00 41.89	BBBB
ATOM ATOM	7153 7154	CA CB	SER B		-15.345	90.030	43.833	1.00 40.93	BBBB
ATOM	7155	OG	SER B		-15.579	88.545	43.582	1.00 39.44	BBBB
ATOM	7156	C	SER B		-16.370	87.986	44.618	1.00 39.67	BBBB
ATOM	7157	0	SER B		-14.631 -13.425	90.643 90.896	42.642	1.00 42.11	BBBB
ATOM	7158	И	ASP B		-15.367	90.886	42.701 41.563	1.00 41.78 1.00 42.98	BBBB
ATOM	7159	CA	ASP B		-14.754	91.447	40.364	1.00 42.98	BBBB BBBB
ATOM	7160	СВ	ASP B		-14.333	90.292	39.438	1.00 44.47	BBBB
ATOM	7161	CG	ASP B		-13.368	90.723	38.337	1.00 45.04	BBBB
MOTA	7162	OD1	ASP B		-12.869	91.866	38.372	1.00 43.36	BBBB
ATOM	7163	OD2	ASP B	434	-13.101	89.897	37.440	1.00 44.63	BBBB
ATOM	7164	C	ASP B	434	-15.745	92.365	39.661	1.00 43.99	BBBB
ATOM	7165	Ó.	ASP B	434	-16.915	92.412	40.030	1.00 45.14	BBBB
ATOM	7166	N	GLY B		-15.263	93.113	38.674	1.00 42.80	BBBB
MOTA	7167	CA	GLY B		-16.132	93.988	37.908	1.00 41.10	BBBB
MOTA	7168	C	GLY B		-16.469	95.329	38.516	1.00 40.78	BBBB
ATOM	7169	0	GLY B		-16.512	95.477	39.737	1.00 39.11	BBBB
MOTA	7170	N	ASP B		~16.726	96.305	37.646	1.00 39.55	BBBB
ATOM ATOM	7171 7172	CA	ASP B		-17.069		38.068	1.00 37.79	BBBB
ATOM	7173	CB CG	ASP B		-16.771	98.646	36.941	1.00 39.45	BBBB
ATOM	7174		ASP B		-15.271	98.785	36.667	1.00 42.51	BBBB
ATOM	7175		ASP B		-14.480 -14.887	98.096 99.578	37.355 35.769	1.00 42.39	BBBB
ATOM	7176	C	ASP B		-18.521	97.780	38.515	1.00 41.03 1.00 35.59	BBBB
ATOM	7177	ō	ASP B		-19.348	96.922	38.216	1.00 35.39	BBBB BBBB
ATOM	7178	N	VAL B		-18.803	98.847	39.259	1.00 35.72	BBBB
ATOM	7179	CA	VAL B		-20.134	99.137	39.791	1.00 35.05	BBBB
ATOM	7180	CB	VAL B		-20.112	99.287	41.330	1.00 35.32	BBBB
ATOM	7181		VAL B		-21.461	99.817	41.811	1.00 32.87	BBBB
ATOM	7182	CG2	VAL B	437	-19.763	97.958	41.996	1.00 32.52	BBBB
ATOM	7183	С	VAL B	437		100.453	39.246	1.00 34.63	BBBB
ATOM	7184	0	VAL B	437	-19.980	101.476	39.256	1.00 33.59	BBBB
ATOM	7185	N	ILE B			100.437	38.772	1.00 33.23	BBBB
MOTA	7186	CA	ILE B		-22.519	101.671	38.276	1.00 32.12	BBBB
MOTA	7187	CB	ILE B			101.742	36.730	1.00 32.39	BBBB
ATOM	7188		ILE B			100.717	36.188	1.00 31.12	BBBB
ATOM	7189		ILE B			103.168	36.319	1.00 34.08	BBBB
ATOM	7190		ILE B			103.428	34.826	1.00 31.51	BBBB
MOTA	7191	C	ILE B			101.881	38.829	1.00 31.17	BBBB
ATOM ATOM	7192	0	ILE B			101.011	38.766	1.00 29.98	BBBB
ATOM	7193	N	ILE B			103.054	39.403	1.00 32.92	BBBB
ATOM	7194 7195	CA	ILE B			103.425	39.980	1.00 34.64	BBBB
77 OF1	1170	CB	ILE B	439	-25.299	103.362	41.518	1.00 31.20	BBBB

ATOM	7196	CG2	ILE B	439	-26.602 103.776	42.138	1.00 27.22	BBBB
ATOM	7197		ILE B		-24.949 101.928	41.926	1.00 29.75	BBBB
ATOM	7198	CD1	ILE B	439	-24.936 101.671	43.383	1.00 32.36	BBBB
MOTA	7199	С	ILE B	439	-25.637 104.834	39.482	1.00 36.91	BBBB
ATOM	7200	0	ILE B	439	-24.959 105.778	39.877	1.00 38.64	BBBB
ATOM	7201	И	SER B	440	-26.587 104.972	38.570	1.00 37.94	BBBB
ATOM	7202	CA	SER B	440	-26.877 106.288	38.031	1.00 38.31	BBBB
ATOM	7203	CB	SER B	440	-25.887 106.632	36.937	1.00 40.88	BBBB
ATOM	7204	OG	SER B	440	-26.180 105.871	35.782	1.00 47.04	BBBB
ATOM	7205	С	SER B	440	-28.263 106.371	37.451	1.00 37.32	BBBB
ATOM	7206	0	SER B	440	-28.866 105.358	37.107	1.00 35.80	BBBB
ATOM	7207	N	GLY B	441	-28.754 107.596	37.337	1.00 37.58	BBBB
ATOM	7208	CA	GLY B		-30.072 107.809	36.790	1.00 39.06	BBBB
ATOM	7209	C	GLY B		-31.182 107.522	37.773	1.00 41.14	BBBB
ATOM	7210	0	GLY B		-32.336 107.423	37.375	1.00 42.86	BBBB
ATOM	7211	И	ASN B		-30.846 107.386	39.053	1.00 41.60	BBBB
ATOM	7212	CA	ASN B		-31.851 107.133	40.083	1.00 41.63	BBBB
ATOM	7213	CB	ASN B		-31.340 106.080	41.051	1.00 40.50	BBBB
ATOM	7214	CG	ASN B		-30.944 104.816	40.356	1.00 38.82	BBBB
ATOM	7215		ASN B		-31.794 104.030	39.915	1.00 38.59	BBBB
ATOM	7216		ASN B		-29.645 104.608	40.232	1.00 39.70	BBBB
ATOM	7217	С	ASN B		-32.064 108.455	40.797	1.00 43.32	BBBB
ATOM	7218	0	ASN B		-31.392 108.762	41.783	1.00 44.54	BBBB
ATOM	7219	N	LYS B		-33.010 109.233	40.280	1.00 46.16	BBBB
ATOM	7220	CA	LYS B		-33.327 110.572	40.780	1.00 45.49	BBBB
ATOM	7221	СВ	LYS B		-34.488 111.138	39.972	1.00 45.01	BBBB
ATOM	7222	CG	LYS B		-34.296 111.050	38.469	1.00 46.89	BBBB
ATOM	7223	CD	LYS B		-33.116 111.882	37.954	1.00 48.64	BBBB
ATOM	7224	CE	LYS B		-31.770 111.149	38.044	1.00 49.33	BBBB
ATOM	7225	NZ	LYS B		-30.721 111.790	37.178	1.00 46.87	BBBB
ATOM	7226	C	LYS B		-33.616 110.741	42.270	1.00 46.06	BBBB
ATOM	7227	ō	LYS B		-33.438 111.831	42.805	1.00 46.30	BBBB
ATOM	7228	N	ASN B		-34.046 109.676	42.942	1.00 47.13	BBBB
ATOM	7229	CA	ASN B		-34.355 109.749	44.366	1.00 45.90	BBBB
ATOM	7230	CB	ASN B		-35.713 109.115	44.632	1.00 44.40	BBBB
ATOM	7231	CG	ASN B		-36.777 109.632	43.702	1.00 44.40	BBBB
ATOM	7232		ASN B		-36.959 110.840	43.566	1.00 46.06	BBBB
ATOM	7233		ASN B		·-37.492 108.725	43.055	1.00 43.94	BBBB
ATOM	7234	C	ASN B		-33.328 109.082	45.266	1.00 47.00	BBBB
ATOM	7235	ō	ASN B		-33.407 109.203	46.477	1.00 49.87	BBBB
ATOM	7236	N	LEU B		-32.363 108.388	44.680	1.00 48.18	BBBB
ATOM	7237	CA	LEU B		-31.348 107.667	45.445	1.00 47.04	BBBB
ATOM	7238	СВ	LEU B		-30.498 106.836	44.493	1.00 45.61	BBBB
ATOM	7239	CG	LEU B		-29.698 105.745	45.186	1.00 42.60	BBBB
ATOM	7240		LEU B		-30.660 104.806	45.872	1.00 43.55	BBBB
ATOM	7241		LEU B		-28.858 105.010	44.177	1.00 45.05	BBBB
ATOM	7242	C	LEU B		-30.440 108.573	46.255	1.00 47.04	BBBB
ATOM	7243	0	LEU B		-29.846 109.487	45.697	1.00 46.49	BBBB
ATOM	7244	N	CYS B	446	-30.277 108.283	47.549	1.00 47.40	BBBB
ATOM	7245	CA	CYS B		-29.454 109.141	48.401	1.00 48.48	BBBB
ATOM	7246	С	CYS B		-28.188 108.688	49.130	1.00 48.34	BBBB
MOTA	7247	0	CYS B		-27.424 109.541	49.581	1.00 50.92	BBBB
ATOM	7248	CB	CYS B	446	-30.339 109.816	49.454	1.00 48.99	BBBB
ATOM	7249	SG	CYS B	446	-31.109 111.368	48.901	1.00 50.60	BBBB
ATOM	7250	N	TYR B		-27.913 107.402	49.268	1.00 46.98	BBBB
ATOM	7251	CA	TYR B		-26.720 107.074	50.051	1.00 45.51	BBBB
ATOM	7252	CB	TYR B	447	-27.124 106.292	51.298	1.00 42.08	BBBB
ATOM	7253	CG	TYR B		-28.367 106.818	51.978	1.00 39.46	BBBB
ATOM	7254	, CD1	TYR B	447	-29.629 106.357	51.611	1.00 37.47	BBBB
MOTA	7255	CE1	TYR B	447	-30.776 106.867	52.196	1.00 35.90	BBBB
MOTA	7256	CD2	TYR B	447	-28.285 107.808	52.960	1.00 37.08	BBBB
ATOM	7257	CE2	TYR B	447	-29.423 108.323	53.546	1.00 34.98	BBBB
ATOM	7258	CZ	TYR B		-30.666 107.856	53.161	1.00 36.15	BBBB
ATOM	7259	OH	TYR B		-31.805 108.402	53.712	1.00 37.41	BBBB
ATOM	7260	С	TYR B		-25.579 106.336	49.376	1.00 47.03	BBBB
ATOM	7261	0	TYR B		-24.519 106.173	49.972	1.00 48.22	BBBB
ATOM	7262	N	ALA B		-25.796 105.893	48.143	1.00 45.97	BBBB
ATOM	7263	CA	ALA B		-24.795 105.150	47.405	1.00 43.61	BBBB
ATOM	7264	СВ	ALA B		-25.153 105.140	45.923	1.00 42.64	BBBB
ATOM	7265	C	ALA B		-23.379 105.670	47.600	1.00 44.19	BBBB
ATOM	7266	ō	ALA B		-22.418 104.905	47.548	1.00 43.70	BBBB
ATOM	7267	N	ASN B		-23.237 106.965	47.845	1.00 45.56	BBBB
ATOM	7268	CA	ASN B			48.007	1.00 48.58	BBBB
ATOM	7269	CB	ASN B			47.609	1.00 50.13	BBBB
ATOM	7270	CG	ASN B		-21.756 109.196	46.139	1.00 53.23	BBBB
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ATOM	7271	OD1	ASN	В	449	-20.660	108.975	45.616	1.00 54.62	gggg
ATOM	7272	ND2	ASN	B	449		109.590	45.445	1.00 56.49	BBBB
MOTA	7273	С	ASN				107.421	49.363	1.00 48.88	BBBB
ATOM	7274	0	ASN				107.632	49.473	1.00 47.37	BBBB
ATOM	7275	N	THR				107.083	50.387	1.00 47.37	BBBB
ATOM	7276	CA	THR				106.959	51.726		BBBB
MOTA	7277	CB	THR				107.000	52.748	1.00 49.93	BBBB
ATOM	7278	OG1					107.000	52.748	1.00 49.47	BBBB
ATOM	7279		THR				103.627		1.00 49.18	BBBB
ATOM	7280	C	THR					52.540	1.00 47.37	BBBB
ATOM	7281	Ö			450		105.654	51.893	1.00 52.04	BBBB
ATOM	7282	N	ILE				105.524	52.792	1.00 53.34	BBBB
ATOM	7283	CA	ILE				104.682	51.034	1.00 52.31	BBBB
ATOM	7284	CB					103.392	51.114	1.00 53.02	BBBB
ATOM	7285		ILE				102.299	50.259	1.00 51.69	BBBB
ATOM			ILE				101.209	49.842	1.00 49.89	BBBB
	7286		ILE				101.646	51.062	1.00 50.40	BBBB
ATOM	7287		ILE				102.564	51.426	1.00 51.17	BBBB
ATOM	7288	С			451		103.476	50.655	1.00 54.54	BBBB
ATOM	7289	0			451		104.255	49.762	1.00 55.40	BBBB
ATOM	7290	N	ASN			-18.017	102.673	51.287	1.00 55.00	BBBB
ATOM	7291	CA			452		102.614	50.911	1.00 55.14	BBBB
MOTA	7292	CB			452	-15.748	102.414	52.146	1.00 55.75	BBBB
ATOM	7293	CG			452	-14.294	102.254	51.801	1.00 56.98	BBBB
ATOM	7294		asn			-13.732	103.061	51.060	1.00 57.40	BBBB
MOTA	7295	ND2	ASN	В	452	-13.668	101.212	52.337	1.00 57.60	BBBB
ATOM	7296	C	ASN	В	452	-16.535	101.399	49.991	1.00 54.34	BBBB
ATOM	7297	0	asn	В	452	-16.085	100.332	50.386	1.00 55.32	BBBB
MOTA	7298	N	TRP	В	453	-16.995	101.574	48.761	1.00 52.06	BBBB
MOTA	7299	CA	TRP	В	453		100.493	47.797	1.00 50.19	BBBB
ATOM	7300	CB	TRP	В	453		101.020	46.441	1.00 46.05	BBBB
MOTA	7301	CG	TRP	₿	453		101.556	46.490	1.00 42.04	BBBB
ATOM	7302	CD2	TRP				100.802	46.343	1.00 38.00	
ATOM	7303	CE2			453		101.705	46.500	1.00 36.39	BBBB
ATOM	7304		TRP			-20.401	99.453	46.094	1.00 37.73	BBBB
ATOM	7305		TRP				102.848	46.726		BBBB
ATOM	7306	NE1			453		102.943		1.00 39.59	BBBB
ATOM	7307		TRP				102.343	46.733	1.00 38.04	BBBB
ATOM	7308		TRP			-21.738		46.415	1.00 34.14	BBBB
ATOM	7309		TRP			-22.784	99.054	46.009	1.00 37.46	BBBB
ATOM	7310	C			453		99.982	46.168	1.00 34.45	BBBB
ATOM	7311	ŏ	TRP			-15.716	99.732	47.641	1.00 51.05	BBBB
ATOM	7312	N			453	-15.730	98.508	47.548	1.00 51.51	BBBB
ATOM	7313		LYS		454		100.440	47.625	1.00 52.52	BBBB
ATOM		CA	LYS		454	-13.294	99.789	47.480	1.00 55.18	BBBB
ATOM	7314	CB	LYS		454		100.837	47.505	1.00 56.46	BBBB
	7315	CG	LYS		454		101.587	46.172	1.00 60.95	BBBB
ATOM	7316	CD	LYS	_	454		102.865	46.305	1.00 61.51	BBBB
MOTA	7317	CE	LYS	_	454		103.565	44.964	0.01 61.57	BBBB
ATOM	7318	NZ	LYS				102.703	43.966	0.01 61.70	BBBB
ATOM	7319	С	LYS			-13.039	98.710	48.537	1.00 55.30	BBBB
ATOM	7320	0	LYS			-12.185	97.854	48.364	1.00 55.50	BBBB
ATOM	7321	N	LYS			-13.792	98.745	49.624	1.00 56.65	BBBB
ATOM	7322	CA	LYS			-13.634	97.762	50.683	1.00 58.08	BBBB
ATOM	7323	CB	LYS			-14.327	98.251	51.964	1.00 60.33	BBBB
ATOM	7324	CG	LYS			-14.247	97.289	53.145	1.00 63.92	BBBB
MOTA	7325	CD	LYS	В	455	-15.343	96.219	53.102	1.00 68.41	BBBB
MOTA	7326	CE	LYS	В	455	-15.041	95.068	54.063	1.00 69.81	BBBB
MOTA	7327	NZ	LYS	В	455	-14.762	95.547	55.462	1.00 72.07	BBBB
ATOM	7328	С	LYS	В	455	-14.228	96.434	50.251	1.00 57.88	BBBB
ATOM	7329	0	LYS	В	455	-13.790	95.377	50.698	1.00 59.14	BBBB
ATOM	7330	N	LEU	В	456	-15.221	96.488	49.371	1.00 57.31	BBBB
ATOM	7331	CA	LEU	В	456	-15.885	95.278	48.907	1.00 55.36	BBBB
ATOM	7332	CB	LEU			-17.362	95.575	48.640	1.00 55.64	BBBB
ATOM	7333	CG	LEU			-18.112	96.362	49.717	1.00 55.20	BBBB
ATOM	7334	CD1				-19.539	96.614	49.283	1.00 54.18	BBBB
ATOM	7335	CD2				-18.088	95.583	51.011	1.00 55.57	
ATOM	7336	C	LEU			-15.259	94.693	47.648		BBBB
ATOM	7337	Ö	LEU						1.00 54.10	BBBB
ATOM	7338	Ŋ	PHE			-15.684	93.638	47.188	1.00 53.37	BBBB
ATOM	7339	CA	PHE			-14.246	95.370	47.107	1.00 53.79	BBBB
ATOM	7340	CB				-13.584	94.940	45.874	1.00 54.54	BBBB
ATOM	7341		PHE			-13.117	96.166	45.085	1.00 51.81	BBBB
ATOM ATOM		CG	PHE	J L	45/	-14.234	97.037	44.591	1.00 51.41	BBBB
ATOM ATOM	7342	CD1				-15.543	96.563	44.540	1.00 51.44	BBBB
	7343	CD2				-13.980	98.333	44.164	1.00 51.62	BBBB
ATOM	7344	CE1	PHE	R	457	-16.579	97.369	44.073	1.00 50.09	BBBB
ATOM	7345	CE2	PHE	В	457	-15.012	99.147	43.695	1.00 51.25	BBBB

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ATOM	7346	CZ	PHE	B 45	7 -16.311	98.662	43.651	1.00 49.17	BBBB
ATOM	7347	С	PHE			93.972	46.015	1.00 56.25	BBBB
MOTA	7348	0	PHE	B 45	7 -11.320	94.362	46.433	1.00 57.82	BBBB
ATOM	7349	N	GLY	B 45	8 -12.616	92.720	45.617	1.00 57.49	BBBB
MOTA	7350	CA	GLY	B 45	8 -11.557	91.725	45.716	1.00 58.42	BBBB
MOTA	7351	С	GLY	B 45	8 -10.636	91.566	44.513	1.00 58.86	BBBB
ATOM	7352	0	GLY	B 45	8 -9.834	90.623	44.471	1.00 57.75	BBBB
MOTA	7353	N	THR	B 45	9 -10.739	92.477	43.543	1.00 58.80	BBBB
MOTA	7354	CA	THR	B 45	9 -9.908	92.432	42.335	1.00 58.35	BBBB
ATOM	7355	CB	THR	B 45	9 -10.701	91.906	41.125	1.00 57.58	BBBB
ATOM	7356	OG1	THR	B 45	9 -11.169	90.579	41.397	1.00 57.36	BBBB
MOTA	7357	CG2	THR	B 45	9 -9.824	91.885	39.882	1.00 54.80	BBBB
MOTA	7358	C	THR	B 45	9 -9.347	93.806	41.962	1.00 59.94	BBBB
MOTA	7359	0	THR	B 45	9 -10.072	94.799	41.929	1.00 61.14	BBBB
ATOM	7360	N	SER	B 46	-8.051	93.861	41.682	1.00 60.65	BBBB
ATOM	7361	CA	SER	B 46			41.315	1.00 60.37	BBBB
ATOM	7362	CB	SER	B 46	0 -5.946	94.873	40.956	1.00 61.40	BBBB
ATOM	7363	OG	SER	B 46	0 -5.844	93.937	39.897	1.00 63.53	BBBB
ATOM	7364	С	SER	B 46	0 -8.130	95.734	40.124	1.00 58.82	BBBB
ATOM	7365	0	SER	B 46	0 -8.667	95.019	39.287	1.00 59.11	BBBB
ATOM	7366	N	GLY	B 46	1 -8.154	97.061	40.060	1.00 57.64	BBBB
MOTA	7367	CA	GLY	B 46	1 -8.801	97.734	38.949	1.00 56.41	BBBB
MOTA	7368	C	GLY	B 46	1 -10.256	98.129	39.134	1.00 54.63	BBBB
MOTA	7369	0	GLY	B 46	1 -10.693	99.151	38.606	1.00 55.38	BBBB
MOTA	7370	N	GLN	B 46	2 -11.012	97.318	39.865	1.00 52.08	BBBB
MOTA	7371	CA	GLN	B 46	2 -12.418	97.611	40.100	1.00 50.49	BBBB
MOTA	7372	CB	GLN	B 46	2 -12.968	96.719	41.219	1.00 48.54	BBBB
ATOM	7373	CG	GLN	B 46	2 -13.163	95.281	40.809	1.00 47.22	BBBB
MOTA	7374	CD	GLN	B 46	2 -13.717	94.427	41.916	1.00 48.49	BBBB
MOTA	7375	OE1	GLN	B 46	2 -13.039	94.141	42.899	1.00 48.79	BBBB
MOTA	7376	NE2	GLN	B 46	2 -14.964	94.013	41.766	1.00 50.35	BBBB
MOTA	7377	C	GLN	B 46	2 -12.636	99.076	40.455	1.00 50.22	BBBB
MOTA	7378	0	GLN	B 46	2 -11.827	99.674	41.166	1.00 50.58	BBBB
ATOM	7379	N	LYS	B 46	3 -13.717	99.652	39.930	1.00 49.55	BBBB
MOTA	7380	CA	LYS	B 46	3 -14.063	101.042	40.201	1.00 49.38	BBBB
ATOM	7381	CB	LYS	B 46	3 -13.447	101.981	39.158	1.00 49.31	BBBB
ATOM	7382	CG	LYS	B 46	3 -13.784	101.650	37.726	1.00 53.28	BBBB
MOTA	7383	CD	LYS	B 46	3 -13.312	102.745	36.782	1.00 53.49	BBBB
ATOM	7384	CE	LYS			102.368	35.317	1.00 54.64	BBBB
MOTA	7385	NZ	LYS			101.350	34.833	1.00 53.59	BBBB
MOTA	7386	С	LYS			101.249	40.241	1.00 48.85	BBBB
ATOM	7387	0	LYS			100.368	39.877	1.00 47.16	BBBB
ATOM	7388	N	THR			102.424	40.700	1.00 48.36	BBBB
ATOM	7389	CA	THR			102.737	40.787	1.00 48.52	BBBB
MOTA	7390		THR			103.053	42.240	1.00 47.81	BBBB
ATOM	7391	OG1	THR			104.184	42.713	1.00 48.94	BBBB
ATOM	7392	CG2				101.882	43.125	1.00 45.28	BBBB
ATOM	7393	C	THR			103.935	39.905	1.00 49.64	BBBB
ATOM	7394	0	THR			104.743	39.578	1.00 50.95	вввв
ATOM	7395	И	LYS			104.017	39.500	1.00 49.53	BBBB
ATOM	7396	CA	LYS			105.122	38.691	1.00 51.45	BBBB
ATOM	7397	CB	LYS			104.708	37.227	1.00 52.92	BBBB
ATOM	7398	CG		B 46		105.884	36.291	1.00 55.59	BBBB
ATOM	7399	CD		B 46		105.436	34.842	1.00 60.53	BBBB
ATOM	7400	CE		B 46		106.607	33.876	1.00 61.32	BBBB BBBB
ATOM	7401 7402	NZ		B 46		107.646	34.032	1.00 63.13 1.00 52.11	BBBB
ATOM		C	LYS LYS			105.387	39.335 38.999	1.00 56.02	BBBB
ATOM	7403 7404	0		B 46		104.763	40.288	1.00 51.57	BBBB
ATOM ATOM	7404	N CA		B 46		106.503	41.039	1.00 50.08	BBBB
ATOM	7406	CB		B 46		106.210	42.513	1.00 47.43	BBBB
ATOM	7400		ILE			106.428	43.346	1.00 47.43	BBBB
ATOM	7408		ILE			104.742	42.539	1.00 45.83	BBBB
ATOM	7409		ILE			104.742	43.889	1.00 47.74	BBBB
ATOM	7410	C		B 46		108.078	40.884	1.00 51.01	BBBB
ATOM	7411	0		B 46		108.915	41.695	1.00 52.11	BBBB
ATOM	7412	N		B 46		108.381	39.818	1.00 51.63	BBBB
ATOM	7413	CA		B 46		100.351	39.516	1.00 52.00	BBBB
ATOM	7414	CB		B 46		110.298	38.427	1.00 53.51	BBBB
ATOM	7415		ILE			110.241	38.906	1.00 54.01	BBBB
ATOM	7416		ILE			109.454	37.154	1.00 54.74	BBBB
ATOM	7417		ILE			109.454	36.004	1.00 53.74	BBBB
ATOM	7418	C		B 46		109.833	39.038	1.00 51.30	BBBB
ATOM	7419	Ö		B 46		108.891	38.916	1.00 51.95	BBBB
ATOM	7420	N		B 46		111.107	38.776	1.00 51.70	BBBB
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ATOM	7421	CA	SER	B 468	-26.640	111.414	38.281	1.00 50.54	BBBB
ATOM	7422	CB	SER	B 468		111.042	36.811	1.00 49.88	BBBB
ATOM	7423	OG		B 468		111.621	36.082	1.00 53.30	BBBB
ATOM	7424	С		B 468		110.769	39.030	1.00 49.85	BBBB
MOTA	7425	0		B 468		110.322	38.428	1.00 51.47	BBBB
ATOM ATOM	7426 7427	N		B 469		110.698	40.344	1.00 50.38	BBBB
ATOM	7428	CA CB		B 469 B 469		110.145	41.163	1.00 50.00	BBBB
ATOM	7429	CG		B 469		109.152	42.199	1.00 48.59	BBBB
MOTA	7430		ASN			107.173	41.563 40.860	1.00 46.87	BBBB
MOTA	7431		ASN			107.710	41.800	1.00 47.05	BBBB BBBB
MOTA	7432	С	ASN	B 469		111.397	41.835	1.00 49.03	BBBB
ATOM	7433	0		B 469		112.472	41.264	1.00 49.62	BBBB
ATOM	7434	N		B 470		111.286	43.026	1.00 50.04	BBBB
ATOM ATOM	7435 7436	CA		B 470		112.477	43.706	1.00 50.38	BBBB
ATOM	7436	CB CG		B 470 B 470		112.119	44.773	1.00 49.19	BBBB
ATOM	7438	CD		B 470		113.333 112.977	45.404	1.00 48.85	BBBB
ATOM	7439	NE		B 470		114.170	46.444 47.183	1.00 48.22 1.00 51.35	BBBB
MOTA	7440	CZ		B 470		114.165	48.395	1.00 51.33	BBBB BBBB
ATOM	7441		ARG I			113.020	49.021	1.00 53.52	BBBB
ATOM	7442		ARG I			115.314	48.988	1.00 54.49	BBBB
ATOM	7443	C		B 470		113.162	44.346	1.00 52.04	BBBB
ATOM ATOM	7444 7445	0		B 470		112.601	45.224	1.00 54.01	BBBB
ATOM	7445	N CA		B 471 B 471		114.375	43.891	1.00 53.04	BBBB
ATOM	7447	C		B 471		115.126 115.130	44.395	1.00 53.66	BBBB
ATOM	7448	ō		B 471		115.150	45.892 46.699	1.00 54.38 1.00 54.39	BBBB
ATOM	7449	N		B 472		115.248	46.253	1.00 54.22	BBBB BBBB
ATOM	7450	CA	GLU 1	B 472		115.273	47.642	1.00 55.34	BBBB
ATOM	7451	CB		B 472	-24.211	115.335	47.701	1.00 57.36	BBBB
MOTA	7452	CG	GLU I			113.978	47.582	1.00 59.89	BBBB
ATOM ATOM	7453 7454	CD	GLU I			113.831	48.556	1.00 60.93	BBBB
ATOM	7455		GLU I			114.168	49.747	1.00 59.97	BBBB
ATOM	7456	C	GLU I			113.376 116.412	48.135 48.476	1.00 60.54	BBBB
ATOM	7457	Ō		3 472		116.186	49.574	1.00 54.91 1.00 54.27	BBBB BBBB
MOTA	7458	N		3 473		117.632	47.954	1.00 54.27	BBBB
MOTA	7459	CA	ASN E	3 473	-26.683	118.828	48.634	1.00 53.66	BBBB
ATOM	7460	CB		3 473		120.067	47.827	1.00 54.51	BBBB
ATOM ATOM	7461 7462	CG	ASN E			119.996	47.235	1.00 57.57	BBBB
ATOM	7463		ASN E		-24.667	119.132	46.400	1.00 63.75	BBBB
MOTA	7464	C	ASN E			120.901 118.775	47.655 48.822	1.00 58.01	BBBB
ATOM	7465	o	ASN E			119.411	49.722	1.00 52.72 1.00 53.34	BBBB
ATOM	7466	N	SER E			118.009	47.968	1.00 50.22	BBBB BBBB
ATOM	7467	CA	SER E	3 474	-30.295	117.875	48.038	1.00 48.71	BBBB
ATOM	7468	CB	SER E		-30.825	117.442	46.674	1.00 47.34	BBBB
ATOM	7469	OG -	SER E			117.562	46.610	1.00 43.65	BBBB
ATOM ATOM	7470 7471	C	SER E			116.843	49.107	1.00 50.12	BBBB
ATOM	7471	O N	SER E		-31.586	117.010	49.872	1.00 49.98	BBBB
ATOM	7473	CA	CYS E			115.771 114.731	49.170	1.00 51.42	BBBB
MOTA	7474	C	CYS E			115.291	50.171 51.580	1.00 51.25 1.00 50.47	BBBB
ATOM	7475	0	CYS E			114.974	52.493	1.00 49.09	BBBB BBBB
ATOM	7476	CB	CYS E	3 475		113.507	49.938	1.00 50.50	BBBB
ATOM	7477	SG	CYS E		-29.533	112.554	48.418	1.00 49.18	BBBB
MOTA	7478	N	LYS E			116.120	51.754	1.00 49.72	BBBB
ATOM ATOM	7479 7480	CA	LYS E			116.728	53.058	1.00 49.52	BBBB
ATOM	7480	CB CG	LYS E		-27.270		53.038	1.00 50.33	BBBB
ATOM	7482	CD	LYS E			116.686 117.530	52.847	1.00 54.29	BBBB
ATOM	7483	CE	LYS E			118.197	52.973 54.347	1.00 54.77 1.00 55.80	BBBB
MOTA	7484	NZ	LYS E		-23.339		54.619	1.00 56.69	BBBB BBBB
ATOM	7485	C	LYS E		-29.694		53.480	1.00 49.74	BBBB
MOTA	7486	0	LYS E		-30.162	117.600	54.615	1.00 49.02	BBBB
ATOM	7487	N	ALA E		-30.115	118.541	52.559	1.00 49.79	BBBB
ATOM	7488	CA	ALA E		-31.172	119.527	52.803	1.00 50.12	BEBB
ATOM ATOM	7489	CB	ALA E		-31.527	120.241	51.507	1.00 49.05	BBBB
ATOM ATOM	7490 7491	C	ALA E		-32.429		53.436	1.00 51.38	BBBB
ATOM ATOM	7491	O N	ALA E		-33.035 -32.834		54.303	1.00 52.04	BBBB
ATOM	7493	CA	THR B		-32.834 -34.009		52.997	1.00 52.13	BBBB
ATOM	7494	CB	THR B		-34.821	116.348	53.571 52.519	1.00 54.26 1.00 55.62	BBBB BBBB
MOTA	7495		THR B		-34.040	116.189	51.331	1.00 58.94	BBBB
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ATOM	7496	CG2	THR E	3 478	-36.088	117.089	52.199	1.00 57.20	BBBB
ATOM	7497	C	THR E	3 478	-33.567	116.121	54.642	1.00 54.84	BBBB
ATOM	7498	0	THR E	3 478	-34.321	115.229	55.036	1.00 55.03	BBBB
ATOM	7499	N	GLY E	3 479	-32.331	116.284	55.103	1.00 54.31	BBBB
ATOM	7500	CA	GLY E	479	-31.801	115.421	56.138	1.00 54.32	BBBB
MOTA	7501	С	GLY E	479	-31.894	113.954	55.790	1.00 55.21	BBBB
ATOM	7502	0	GLY E	3 479	-32.626	113.199	56.429	1.00 54.15	BBBB
ATOM	7503	N	GLN E	480		113.550	54.760	1.00 55.42	
MOTA	7504	CA	GLN E			112.161	54.341	1.00 56.09	
ATOM	7505	CB	GLN E			111.969	53.087	1.00 57.43	
ATOM	7506	CG	GLN E			112.601	53.231	1.00 61.13	
ATOM	7507	CD	GLN E			111.878	52.452	1.00 64.12	
ATOM	7508		GLN E			112.299	52.433	1.00 65.51	
ATOM	7509		GLN E			110.774	51.805	1.00 65.31	
ATOM	7510	C	GLN E			111.752	54.099	1.00 55.09	
ATOM	7511	ō	GLN E			111.484	52.972	1.00 54.83	
ATOM	7512	N	VAL E			111.757	55.202	1.00 52.42	
ATOM	7513	CA	VAL E			111.372	55.244	1.00 49.85	
ATOM	7514	CB	VAL E			112.468	55.917	1.00 49.00	
	7515		VAL E			113.635	54.951	1.00 51.46	
ATOM	7516					112.971		1.00 50.56	
ATOM			VAL E				57.194		
ATOM	7517	C	VAL E			110.147	56.131	1.00 48.80	
ATOM	7518	0	VAL E			109.776	56.562	1.00 46.41	
ATOM	7519	N	CYS E			109.512	56.404	1.00 48.86	
ATOM	7520	CA	CYS E			108.334	57.256	1.00 47.97	
MOTA	7521	С	CYS E			108.707	58.689	1.00 48.89	
MOTA	7522	0	CYS E			109.789	59.160	1.00 49.63	
MOTA	7523	CB	CYS E			107.646	57.209	1.00 47.80	
MOTA	7524	SG	CYS E			106.908	55.589	1.00 47.91	
ATOM	7525	N	HIS E	3 483	-27.615	107.806	59.378	1.00 49.15	BBBB
ATOM	7526	CA	HIS E	3 483	-28.007	108.014	60.768	1.00 50.49	BBBB
MOTA	7527	CB	HIS E	3 483	-28.660	106.740	61.296	1.00 50.71	BBBB
ATOM	7528	CG	HIS E	3 483	-29.343	106.896	62.620	1.00 50.95	BBBB
ATOM	7529	CD2	HIS E	3 483	-30.648	106.777	62.965	1.00 49.32	BBBB
MOTA	7530	ND1	HIS E	8 483	-28.657	107.144	63.791	1.00 50.25	BBBB
ATOM	7531 ·	CE1	HIS E	483	-29.510	107.165	64.799	1.00 50.71	BBBB
ATOM	7532	NE2	HIS E	3 483	-30.724	106.944	64.326	1.00 50.21	BBBB
ATOM	7533	С	HIS E	8 483	-26.808	108.389	61.651	1.00 52.84	BBBB
MOTA	7534	0	HIS E	483	-25.648	108.245	61.252	1.00 51.63	BBBB
ATOM	7535	N	ALA E	3 484	-27.095	108.876	62.855	1.00 55.11	BBBB
ATOM	7536	CA	ALA E	3 484	-26.043	109.273	63.782	1.00 55.52	BBBB
ATOM	7537	CB	ALA E	3 484	-26.641	110.045	64.941	1.00 56.68	BBBB
ATOM	7538	С	ALA E	3 484	-25.293	108.052	64.297	1.00 55.34	BBBB
ATOM	7539	0	ALA E			108.106	64.541	1.00 54.89	BBBB
ATOM	7540		LEU E			106.949	64.452	1.00 54.90	
ATOM	7541	CA	LEU E			105.709	64.930	1.00 56.32	
ATOM	7542	СВ	LEU E			104.709	65.313	1.00 53.86	
ATOM	7543	CG	LEU E			105.112	66.546	1.00 52.18	
ATOM	7544		LEU E			104.252	66.699	1.00 51.29	
ATOM	7545		LEU E			105.002	67.765	1.00 51.47	
ATOM	7546	C	LEU E			105.074	63.908	1.00 58.34	
ATOM	7547	ō	LEU E			104.114	64.224	1.00 59.16	
ATOM	7548	N	CYS E			105.605	62.687	1.00 61.47	
ATOM	7549	CA	CYS E			105.003	61.636	1.00 64.37	
ATOM	7550	C	CYS E			105.736	61.576	1.00 66.24	
ATOM	7551	0	CYS E			105.612	60.568	1.00 67.88	
ATOM	7552	СВ	CYS E			105.012	60.245	1.00 63.26	
	7553						59.872	1.00 65.08	
MOTA		SG	CYS E			104.411			
ATOM	7554	N	SER E			106.457	62.623	1.00 68.67	
ATOM	7555	CA	SER E			107.161	62.641	1.00 72.24	
ATOM	7556	CB	SER E			107.137	64.069	1.00 74.42	
ATOM	7557	OG	SER E			108.103	64.251	1.00 75.71	
ATOM	7558	С	SER E			106.580	61.624	1.00 73.42	
ATOM	7559	0	SER E			107.330	60.905	1.00 75.18	
ATOM	7560	N	PRO E			105.238	61.545	1.00 72.72	
ATOM	7561	CD	PRO E			104.261	62.461	1.00 73.49	
ATOM	7562	CA	PRO E	3 488		104.542	60.636	1.00 72.14	
ATOM	7563	CB	PRO E	3 488		103.106	60.702	1.00 72.72	
ATOM	7564	CG	PRO E	488		102.967	62.129	1.00 74.28	
ATOM	7565	С	PRO E	3 488	-18.376	105.013	59.187	1.00 71.52	
ATOM	7566	0	PRO E	488	-18.014	106.164	58.913	1.00 69.00	
MOTA	7567	N	GLU E	3 489	-18.623	104.074	58.270	1.00 70.83	
MOTA	7568	CA	GLU E	489	-18.477	104.301	56.841	1.00 68.87	
ATOM	7569	CB	GLU E	3 489	-17.429	103.346	56.263	1.00 71.70	
MOTA	7570	CG	GLU E	489	-16.193	103.114	57.111	1.00 74.13	BBBB

ATOM	7571	CD GLU B 489	-15.182 102.214	56.408	1 00 76 10	DDDD
ATOM	7572	OE1 GLU B 489			1.00 76.18	BBBB
			-15.545 101.071	56.047	1.00 76.42	BBBB
ATOM	7573	OE2 GLU B 489	-14.027 102.654	56.214	1.00 76.82	BBBB
ATOM	7574	C GLU B 489	-19.760 104.121	56.032	1.00 66.15	
ATOM	7575	O GLU B 489				BBBB
			-19.997 103.060	55.450	1.00 66.94	BBBB
ATOM	7576	N GLY B 490	-20.586 105.152	55.992	1.00 61.95	BBBB
MOTA	7577	CA GLY B 490	-21.790 105.075	55.198	1.00 56.89	
ATOM	7578	C GLY B 490				BBBB
			-22.897 104.168	55.665	1.00 52.71	BBBB
ATOM	7579	O GLY B 490	<b>-22.821 103.549</b>	56.717	1.00 51.95	BBBB
ATOM	7580	N CYS B 491	-23.932 104.089	54.841	1.00 50.86	
ATOM	7581	CA CYS B 491				BBBB
			-25.104 103.292	55.141	1.00 49.28	BBBB
ATOM	7582	C CYS B 491	-25.811 102.917	53.845	1.00 47.67	BBBB
MOTA	7583	O CYS B 491	-25.435 103.368	52.781	1.00 48.91	
ATOM	7584	CB CYS B 491				BBBB
			-26.038 104.115	56.017	1.00 49.56	BBBB
ATOM	7585	SG CYS B 491	-26.466 105.716	55.262	1.00 48.28	BBBB
ATOM	7586	N TRP B 492	-26.840 102.094	53.945	1.00 46.64	BBBB
ATOM	7587	CA TRP B 492	-27.598 101.669			
				52.778	1.00 45.99	BBBB
ATOM	7588	CB TRP B 492	-27.667 100.141	52.717	1.00 44.98	BBBB
ATOM	7589	CG TRP B 492	-26.331 99.512	52.620	1.00 44.70	
ATOM	7590	CD2 TRP B 492				BBBB
			<b>-25.546</b> 99.354	51.433	1.00 45.59	BBBB
ATOM	7591	CE2 TRP B 492	-24.305 98.787	51.824	1.00 47.09	BBBB
ATOM	7592	CE3 TRP B 492	-25.765 99.636	50.077	1.00 42.87	
MOTA	7593	CD1 TRP B 492				BBBB
			-25.567 99.044	53.651	1.00 46.48	BBBB
ATOM	7594	NE1 TRP B 492	-24.347 98.608	53.183	1.00 46.99	BBBB
ATOM	7595	CZ2 TRP B 492	-23.286 98.498	50.903	1.00 45.29	
ATOM	7596	CZ3 TRP B 492				BBBB
			-24.757 99.350	49.166	1.00 44.67	BBBB
ATOM	7597	CH2 TRP B 492	-23.529 98.786	49.584	1.00 44.99	BBBB
ATOM	7598	C TRP B 492	-28.995 102.246	52.903		
ATOM	7599	· · · · · · · ·			1.00 45.90	BBBB
			-29.891 101.948	52.112	1.00 44.61	BBBB
ATOM	7600	N GLY B 493	-29.169 103.083	53.914	1.00 45.82	BBBB
ATOM	7601	CA GLY B 493	-30.464 103.677	54.143		
ATOM	7602				1.00 45.93	BBBB
			-30.378 104.707	55.238	1.00 46.14	BBBB
MOTA	7603	O GLY B 493	-29.287 105.060	55.676	1.00 46.37	BBBB
ATOM	7604	N PRO B 494	-31.525 105.228	55.683	1.00 46.04	
MOTA	7605					BBBB
			-32.822 105.161	54.986	1.00 43.99	BBBB
ATOM	7606	CA PRO B 494	-31.569 106.232	56.742	1.00 46.43	BBBB
ATOM	7607	CB PRO B 494	-32.790 107.052	56.353	1.00 43.99	
ATOM	7608	CG PRO B 494				BBBB
			-33.717 105.992	55.881	1.00 42.19	BBBB
ATOM	7609	C PRO B 494	-31.693 105.624	58.153	1.00 47.77	BBBB
ATOM	7610	O PRO B 494	-31.217 106.211	59.130	1.00 47.63	
ATOM	7611	N GLU B 495				BBBB
			-32.334 104.459	58.256	1.00 47.59	BBBB
ATOM	7612	CA GLU B 495	-32.520 103.807	59.551	1.00 48.39	BBBB
ATOM	7613	CB GLU B 495	-33.488 102.610	59.413	1.00 44.72	BBBB
ATOM	7614	CG GLU B 495				
			-34.829 102.992	58.764	1.00 43.90	BBBB
MOTA	7615	CD GLU B 495	-35.947 <b>1</b> 01.959	58.947	1.00 44.75	BBBB
ATOM	7616	OE1 GLU B 495	-36.868 102.210	59.757	1.00 45.50	BBBB
ATOM	7617	OE2 GLU B 495	-35.924 100.900			
ATOM				58.283	1.00 43.71	BBBB
	7618	C GLU B 495	<b>-</b> 31.169 103.377	60.159	1.00 50.30	BBBB
ATOM	7619	O GLU B 495	-30.137 103.342	59.475	1.00 50.43	BBBB
ATOM	7620	N PRO B 496	-31.153 103.087	61.467		
ATOM	7621				1.00 51.54	BBBB
		CD PRO B 496	-32.217 103.376	62.443	1.00 52.26	BBBB
MOTA	7622	CA PRO B 496	-29.924 102.670	62.152	1.00 52.69	BBBB
ATOM	7623	CB PRO B 496	-30.354 102.602	63.614	1.00 52.84	
ATOM	7624	CG PRO B 496				BBBB
			-31.426 103.643	63.698	1.00 52.52	BBBB
MOTA	7625	C PRO B 496	-29.323 101.344	61.671	1.00 53.26	BBBB
ATOM	7626	O PRO B 496	-28.097 101.192	61.609	1.00 52.67	BBBB
ATOM	7627	N ARG B 497				
			-30.181 100.387	61.326	1.00 52.91	BBBB
MOTA	7628	CA ARG B 497	-29.689 99.094	60.885	1.00 52.78	BBBB
MOTA	7629	CB ARG B 497	-30.766 98.013	61.039	1.00 54.40	BBBB
ATOM	7630	CG ARG B 497				
				59.988	1.00 55.84	BBBB
MOTA	7631	CD ARG B 497	-31.998 96.486	59.548	1.00 58.15	BBBB
ATOM	7632	NE ARG B 497	-33.331 96.130	59.058	1.00 62.06	BBBB
ATOM	7633	CZ ARG B 497				
			-34.046 96.840	58.187	1.00 64.17	BBBB
ATOM	7634	NH1 ARG B 497	-33.567 97.980	57.690	1.00 66.67	BBBB
ATOM	7635	NH2 ARG B 497	-35.238 96.399	57.798	1.00 63.23	BBBB
ATOM	7636	C ARG B 497				
			-29.138 99.082	59.477	1.00 52.48	BBBB
ATOM	7637	O ARG B 497	-28.590 98.076	59.039	1.00 53.32	BBBB
ATOM	7638	N ASP B 498	-29.269 100.191	58.762	1.00 52.68	BBBB
ATOM	7639	CA ASP B 498				
			-28.735 100.243	57.409	1.00 52.29	BBBB
ATOM	7640	CB ASP B 498	-29.488 101.260	56.543	1.00 51.13	BBBB
ATOM	7641	CG ASP B 498	-30.991 101.054	56.561	1.00 52.92	BBBB
ATOM	7642	OD1 ASP B 498				
			-31.440 99.883	56.570	1.00 53.33	BBBB
ATOM	7643	OD2 ASP B 498	-31.726 102.070	56.552	1.00 52.39	BBBB
ATOM	7644	C ASP B 498	-27.265 100.636	57.487	1.00 53.23	BBBB
ATOM	7645	O ASP B 498				
Of 1	.040	O NOF 10 498	-26.610 100.787	56.462	1.00 52.91	BBBB

ATOM	7646	N	CYS	В	499	-26.	750	100.809	58.705	1.00 54.96	BBBB
ATOM	7647	CA	CYS	В	499	-25.	348	101.186	58.897	1.00 57.42	BBBB
ATOM	7648	С	CYS	В	499	-24.	448	100.031	58.447	1.00 58.47	BBBB
ATOM	7649	0	CYS	В	499	-24.	910	98.903	58.309	1.00 58.45	BBBB
ATOM	7650	CB	CYS	В	499	-25.	059	101.498	60.380	1.00 59.92	BBBB
ATOM	7651	SG	CYS	В	499	-25.	941	102.890	61.196	1.00 60.05	BBBB
ATOM	7652	N	VAL	₿	500	-23.	170	100.305	58.204	1.00 60.63	BBBB
ATOM	7653	CA	VAL	В	500	-22.		99.244	57.795	1.00 64.38	BBBB
ATOM	7654	CB	VAL	В	500	-21.		99.740	56.735	1.00 64.47	BBBB
ATOM	7655	CG1	VAL	В	500			100.423	55.588	1.00 63.63	BBBB
ATOM	7656	CG2	VAL	В	500	-20.	218	100.683	57.359	1.00 65.65	BBBB
ATOM	7657	С	VAL	В	500	-21.	530	98.720	59.038	1.00 66.95	BBBB
ATOM	7658	0	VAL	В	500	-21.	435	97.512	59.253	1.00 67.69	BBBB
ATOM	7659	N	SER	В	501	-21.	035	99.640	59.862	1.00 70.01	BBBB
ATOM	7660	CA	SER	В	501	-20.	352	99.285	61.101	1.00 71.76	BBBB
ATOM	7661	CB	SER	В	501	-18.	873	99.679	61.036	1.00 71.82	BBBB
ATOM	7662	ÓĞ	SER	В	501	-18.	161	98.861	60.124	1.00 73.69	BBBB
MOTA	7663	С	SER	В	501	-21.	032	100.026	62.250	1.00 73.29	BBBB
MOTA	7664	OT1	SER	В	501	-21.	833	100.938	61.951	1.00 73.50	BBBB
MOTA	7665	OT2	SER	В	501	-20.	759	99.697	63.427	1.00 75.50	BBBB
ATOM	7666	CB	ALA	С	2	34.	368	26.190	33.761	1.00 85.67	CCCC
ATOM	7667	C	ALA	С	2	36.	630	27.249	33.541	1.00 85.50	CCCC
ATOM	7668	0	ALA	С	2	37.	681	27.721	33.983	1.00 86.40	CCCC
ATOM	7669	N	ALA	С	2	35.	540	27.073	35.756	1.00 85.68	cccc
ATOM	7670	CA	ALA	С	2	35.	724	26.405	34.434	1.00 85.79	CCCC
ATOM	7671	N	SER	С	3	36.	233	27.439	32.285	1.00 83.91	CCCC
ATOM	7672	CA	SER	С	3	37.	036	28.234	31.364	1.00 81.60	CCCC
ATOM	7673	CB	SER	С	3	36.	918	27.685	29.939	1.00 81.67	CCCC
ATOM	7674	OG	SER	С	3	37.	948	28.196	29.112	1.00 81.47	cccc
ATOM	7675	C	SER	С	3	36.	552	29.678	31.419	1.00 79.57	CCCC
ATOM	7676	0	SER	С	3	37.	354	30.607	31.458	1.00 79.56	CCCC
MOTA	7677	N	HIS	С	4	35.	236	29.858	31.430	1.00 77.17	CCCC
MOTA	7678	CA	HIS	С	4	34.	636	31.187	31.499	1.00 74.71	cccc
ATOM	7679	CB	HIS	С	4	33.	167	31.147	31.061	1.00 73.43	CCCC
MOTA	7680	CG	HIS	С	4	32.	952	31.383	29.601	1.00 72.44	CCCC
ATOM	7681	CD2	HIS	С	4	32.	392	30.604	28.646	1.00 72.64	CCCC
ATOM	7682	ND1	HIS	С	4	33.	305	32.560	28.977	1.00 72.03	CCCC
ATOM	7683	CE1	HIS	С	4	32.	971	32.495	27.700	1.00 72.10	CCCC
ATOM	7684	NE2	HIS	С	4	32.	416	31.318	27.473	1.00 72.16	CCCC
ATOM	7685	С	HIS	С	4	34.	67 <b>7</b>	31.675	32.935	1.00 74.14	CCCC
ATOM	7686	0	HIS	С	4	34.	510	32.866	33.201	1.00 74.16	CCCC
ATOM	7687	N	PHE	С	5	34.	901	30.752	33.863	1.00 73.11	CCCC
ATOM	7688	CA	PHE	С	5	34.	900	31.112	35.270	1.00 73.13	CCCC
ATOM	7689	CB	PHE	С	5	33.	727	30.417	35.972	1.00 71.83	CCCC
ATOM	7690	CG	PHE	-Ĉ	5	32.	531	30.201	35.081	1.00 70.33	CCCC
ATOM	7691	CD1	PHE	С	5	32.	424	29.047	34.308	1.00 68.80	CCCC
ATOM	7692	CD2	PHE	С	5	31.	538	31.177	34.973	1.00 69.68	cccc
MOTA	7693	CE1	PHE	С	5	31.	350	28.871	33.439	1.00 67.89	CCCC
ATOM	7694	CE2	PHE	С	5	30.	464	31.010	34.108	1.00 67.57	cccc
MOTA	7695	CZ	PHE		5	30.	369	29.857	33.340	1.00 67.39	cccc
ATOM	7696	C	PHE		5		185	30.809	36.021	1.00 74.23	CCCC
ATOM	7697	0	PHE		5		143	30.275	35.469	1.00 74.56	CCCC
ATOM	7698	N	ASN		6		184	31.168	37.297	1.00 75.75	CCCC
ATOM	7699	CA	ASN		6		317	30.955	38.182	1.00 76.84	CCCC
ATOM	7700	CB	ASN		6		397	32.010	37.927	1.00 77.88	CCCC
ATOM	7701	CG	ASN		6		686	31.733	38.686	1.00 78.18	CCCC
ATOM	7702		ASN		6		638	32.507	38.605	1.00 78.96	CCCC
ATOM	7703		ASN		6		726	30.626	39.422	1.00 77.65	CCCC
ATOM	7704	С	ASN		6		779	31.101	39.594	1.00 77.72	CCCC
ATOM	7705	0	ASN		6		653	31.567	39.789	1.00 77.34	CCCC
ATOM	7706	N	ASP		7		57 <b>7</b>	30.706	40.579	1.00 78.80	CCCC
ATOM	7707	CA	ASP		7		153	30.809	41.966	1.00 78.72	CCCC
ATOM	7708	CB	ASP		7		303	30.479	42.922	1.00 82.27	CCCC
ATOM	7709	CG	ASP		7		513	28.985	43.084	1.00 84.79	CCCC
ATOM	7710		ASP		7		553	28.288	43.483	1.00 85.89	CCCC
ATOM	7711		ASP		7		637	28.510	42.814	1.00 87.43	CCCC
ATOM	7712	С	ASP		7		598	32.182	42.293	1.00 76.61	CCCC
ATOM	7713	0	ASP		7		672	33.123	41.502	1.00 75.51	CCCC
ATOM	7714	N	CYS		8		055	32.284	43.490	1.00 74.90	CCCC
ATOM	7715	CA	CYS		8		441	33.506	43.938	1.00 74.35	CCCC
ATOM	7716	C	CYS		8		911	33.778	45.364	1.00 75.50	CCCC
ATOM	7717	0	CYS		8		809	32.917	46.232	1.00 75.99	CCCC
ATOM	7718	CB	CYS		8		935	33.295	43.864	1.00 70.95	CCCC
ATOM	7719	SG	CYS		8		894	34.711	44.270	1.00 71.46	cccc
ATOM	7720	N	PRO	C	9	36.	463	34.972	45.620	1.00 77.32	CCCC

ATOM	7721	CD	PRO	С	9	36.584	36.144	44.737	1.00 77.60	cccc
ATOM	7722	CA	PRO		9	36.933	35.282	46.974		
ATOM	7723	CB	PRO		9				1.00 79.25	
ATOM	7724	CG				37.523	36.679	46.819	1.00 78.78	
			PRO		9	36.685	37.276	45.730	1.00 78.75	
ATOM	7725	C	PRO		9	35.793	35.228	47.989	1.00 81.95	cccc
ATOM	7726	0	PRO		9	34.955	36.132	48.048	1.00 82.64	I CCCC
ATOM	7727	N	ASP		10	35.770	34.164	48.789	1.00 84.32	2 CCCC
ATOM	7728	CA	ASP	С	10	34.721	33.971	49.790	1.00 86.71	
ATOM	7729	CB	ASP	С	10	34.739	32.518	50.302	1.00 87.60	
ATOM	7730	CG	ASP	С	10	36.073	32.119	50.920	1.00 88.03	
ATOM	7731		ASP		10	37.126	32.426	50.320	1.00 87.70	
ATOM	7732		ASP		10	36.063				
ATOM	7733	C	ASP		10		31.482	51.998	1.00 87.81	
ATOM						34.759	34.948	50.966	1.00 87.30	
	7734	0	ASP		10	35.514	34.768	51.923	1.00 87.79	eccc c
MOTA	7735	N	ALA		11	33.927	35.984	50.884	1.00 87.71	L CCCC
MOTA	7736	CA	ALA		11	33.848	36.996	51.933	1.00 88.29	CCCC
ATOM	7737	СВ	ALA	С	11	33.151	38.245	51.403	1.00 87.90	) cccc
MOTA	7738	С	ALA	С	11	33.093	36.446	53.141	1.00 88.06	cccc
ATOM	7739	0	ALA	С	11	32.532	35.348	53.084	1.00 88.67	
ATOM	7740	N	HIS		12	33.086	37.205	54.234	1.00 86.97	
ATOM	7741	CA	HIS		12	32.388				
ATOM	7742	CB	HIS		12		36.780	55.442	1.00 85.27	
						32.645	37.771	56.580	1.00 89.09	
ATOM	7743	CG	HIS		12	34.022	37.667	57.163	1.00 92.34	l cccc
ATOM	7744				12	34.439	37.387	58.421	1.00 93.62	cccc c
MOTA	7745			С	12	35.164	37.840	56.410	1.00 93.97	CCCC
ATOM	7746	CE1	HIS	С	12	36.226	37.669	57.178	1.00 94.28	cccc c
ATOM	7747	NE2	HIS	C	12	35.814	37.393	58.403	1.00 94.39	
ATOM	7748	С	HIS	С	12	30.893	36.642	55.160	1.00 81.69	
ATOM	7749	0	HIS	С	12	30.273	35.651	55.555	1.00 81.40	
ATOM	7750	N	THR		13	30.316	37.635	54.483	1.00 76.55	
ATOM	7751	CA	THR		13	28.905	37.581			
ATOM	7752	CB	THR		13			54.108	1.00 70.27	
ATOM	7753					28.234	38.963	54.151	1.00 71.03	
			THR		13	29.008	39.889	53.384	1.00 71.60	
ATOM	7754		THR		13	28.107	39.456	55.578	1.00 70.29	cccc
ATOM	7755	С	THR		13	28.89 <b>3</b>	37.072	52.673	1.00 66.10	) CCCC
ATOM	7756	0	THR	С	13	29.607	37.593	51.820	1.00 64.36	cccc
ATOM	7757	N	GLN	С	14	28.087	36.047	52.417	1.00 62.09	
ATOM	7758	CA	GLN	C	14	28.009	35.439	51.092	1.00 57.13	
ATOM	7759	CB	GLN	С	14	27.251	34.105	51.183	1.00 58.37	
ATOM	7760	CG	GLN		14	25.784	34.219	51.632	1.00 57.77	
ATOM	7761	CD	GLN		14	25.204	32.889	52.111	1.00 57.44	
ATOM	7762		GLN	C	14	25.362				
ATOM	7763						31.851	51.462	1.00 57.93	
ATOM					14	24.521	32.921	53.247	1.00 56.10	
	7764	C	GLN	C	14	27.379	36.328	50.022	1.00 52.85	
ATOM	7765	0	GLN		14	26.513	37.148	50.309	1.00 50.57	CCCC
ATOM	7766	И	PHE	С	15	27.843	36.161	48.787	1.00 49.71	. CCCC
ATOM	7767	CA	PHE	С	15	27.325	36.919	47.660	1.00 47.37	CCCC
ATOM	7768	CB	PHE	С	15	28.358	36.979	46.544	1.00 45.08	cccc
ATOM	7769	CG	PHE	С	15	27.980	37.903	45.426	1.00 43.63	cccc
ATOM	7770	CD1	PHE	С	15	27.621	39.218	45.690	1.00 42.03	
ATOM	7771		PHE		15	27.970	37.459	44.112	1.00 42.01	
ATOM	7772		PHE		15	27.253	40.080	44.666	1.00 41.49	
ATOM	7773		PHE		15	27.604	38.311	43.083	1.00 43.16	
ATOM	7774	CZ	PHE		15					
ATOM	7775	C				27.243	39.633	43.363	1.00 42.24	
			PHE		15	26.052	36.237	47.150	1.00 46.41	
ATOM	7776	0	PHE		15	25.052	36.899	46.856	1.00 44.93	
MOTA	7777	N	CYS		16	26.107	34.913	47.057	1.00 43.06	CCCC
ATOM	7778	CA	CYS		16	24.975	34.122	46.624	1.00 42.54	CCCC
MOTA	7779	С	CYS	С	16	24.342	33.467	47.837	1.00 42.96	CCCC
ATOM	7780	0	CYS	С	16	24.869	32.504	48.387	1.00 44.28	
ATOM	7781	CB	CYS	С	16	25.418	33.049	45.646	1.00 42.95	
ATOM	7782	SG	CYS		16	26.407	33.706	44.278	1.00 45.55	
ATOM	7783	N	PHE		17	23.196	33.700	48.246	1.00 43.33	
ATOM	7784	CA	PHE		17	22.502	33.473	49.400		
ATOM	7785	CB	PHE		17				1.00 40.53	
ATOM	7786					21.265	34.307	49.645	1.00 39.52	
		CG	PHE		17	21.538	35.768	49.729	1.00 38.55	
MOTA	7787		PHE		17	22.131	36.316	50.861	1.00 37.95	
ATOM	7788		PHE		17	21.191	36.610	48.684	1.00 39.76	CCCC
ATOM	7789		PHE		17	22.373	37.685	50.952	1.00 35.64	CCCC
ATOM	7790	CE2	PHE	С	17	21.431	37.987	48.766	1.00 39.34	CCCC
MOTA	7791	CZ	PHE	С	17	22.022	38.518	49.904	1.00 37.99	
ATOM	7792	С	PHE		17	22.119	32.010	49.298	1.00 41.94	
ATOM	7793	0	PHE		17	22.137	31.300	50.297	1.00 44.58	
ATOM	7794	И	HIS		18	21.762	31.540	48.110	1.00 44.38	
ATOM	7795	CA	HIS		18					
		O.	1170	•	70	21.371	30.136	47.980	1.00 42.88	CCCC

ATOM	7796	CB	HIS	C 1	L8	19.848	29.998	48.036	1.00 41.44		CCCC
ATOM	7797	CG	HIS	C 1	18	19.230	30.626	49.248	1.00 42.01		CCCC
ATOM	7798	CD2	HIS		18	18.720	31.867	49.446	1.00 40.85		CCCC
ATOM	7799		HIS		18	19.123	29.971	50.456	1.00 40.85		CCCC
ATOM	7800		HIS		L8	18.573	30.780	51.347	1.00 41.29		CCCC
ATOM	7801		HIS		L8	18.319	31.937	50.759	1.00 42.00		CCCC
ATOM	7802	C	HIS		18	21.899	29.537	46.696	1.00 43.98		CCCC
ATOM	7803	ō	HIS		18	21.144	29.196	45.790	1.00 45.86		CCCC
ATOM	7804	N	GLY		19	23.214	29.393	46.645	1.00 45.08		CCCC
ATOM	7805	CA	GLY		19	23.869	28.846	45.477	1.00 45.18		CCCC
						25.320		45.617	1.00 44.95		CCCC
ATOM	7806	C	GLY		L9		29.214	46.575	1.00 46.12		CCCC
ATOM	7807	0	GLY		19	25.682	29.876				CCCC
ATOM	7808	N	THR		20	26.152	28.827	44.667	1.00 45.35		
ATOM	7809	CA	THR		20	27.570	29.112	44.786	1.00 46.31		CCCC
ATOM	7810	СВ	THR		20	28.404	27.853	44.444	1.00 44.86		CCCC
ATOM	7811	OG1			20	28.360	27.625	43.036	1.00 45.83		CCCC
ATOM	7812		THR		20	27.838	26.629	45.133	1.00 42.40		CCCC
ATOM	7813	С	THR	C 2	20	28.035	30.257	43.903	1.00 48.10		CCCC
MOTA	7814	0	THR	C 2	20	27.517	30.448	42.803	1.00 49.80		CCCC
MOTA	7815	N	CYS	C :	21	29.004	31.031	44.386	1.00 48.82		CCCC
ATOM	7816	ÇA	CYS	C 1	21	29.532	32.109	43.578	1.00 49.96		CCCC
ATOM	7817	С	CYS	C 2	21	30.575	31.531	42.654	1.00 48.97		CCCC
ATOM	7818	0	CYS	C 2	21	31.102	30.449	42.894	1.00 49.51		CCCC
ATOM	7819	CB	CYS	C 2	21	30.205	33.212	44.404	1.00 53.74		CCCC
ATOM	7820	SG	CYS	C 2	21	31.157	34.324	43.299	1.00 62.23		CCCC
ATOM	7821	N	ARG		22	30.838	32.260	41.578	1.00 47.91	•	CCCC
ATOM	7822	CA	ARG		22	31.852	31.918	40.601	1.00 46.52		CCCC
ATOM	7823	CB	ARG		22	31.362	30.880	39.592	1.00 43.45		CCCC
ATOM	7824	CG	ARG		22	30.197	31.296	38.725	1.00 43.43		CCCC
ATOM	7825	CD	ARG		22	29.841	30.170	37.760	1.00 39.94		CCCC
ATOM	7826	NE	ARG		22	28.657	30.462	36.960	1.00 36.89		CCCC
ATOM	7827	CZ	ARG		22	28.151	29.626	36.064	1.00 36.15		CCCC
ATOM	7828		ARG		22	28.732	28.454	35.856	1.00 33.28		CCCC
ATOM	7829		ARG		22	27.064	29.955	35.384	1.00 35.89		CCCC
ATOM	7830	C	ARG		22	32.156	33.240	39.921	1.00 48.25		CCCC
					22	31.265	34.068	39.723	1.00 46.01		CCCC
ATOM	7831	0	ARG					39.607	1.00 50.87		CCCC
ATOM	7832	N	PHE		23	33.426	33.455		1.00 53.60		CCCC
MOTA	7833	CA	PHE		23	33.844	34.689	38.969			CCCC
ATOM	7834	CB	PHE		23	35.199	35.124	39.523	1.00 56.02		
ATOM	7835	CG	PHE		23	35.500	36.586	39.325	1.00 57.16		CCCC
MOTA	7836		PHE		23	34.927	37.542	40.155	1.00 57.10		CCCC
ATOM	7837	CD2			23	36.381	37.002	38.331	1.00 58.22		CCCC
MOTA	7838	CE1			23	35.227	38.887	40.006	1.00 57.73		CCCC
ATOM	7839	CE2			23	36.687	38.345	38.174	1.00 59.39		CCCC
ATOM	7840	CZ	PHE		23	36.108	39.290	39.017	1.00 58.87		CCCC
ATOM	7841	С	PHE		23	33.965	34.401	37.492	1.00 53.56		CCCC
MOTA	7842	0	PHE		23	34.715	33.510	37.095	1.00 52.87		CCCC
MOTA	7843	И	LEU		24	33.229	35.131	36.666	1.00 54.07		CCCC
MOTA	7844	CA	LEU		24	33.339	34.860		1.00 56.07		CCCC
ATOM	7845	CB	LEU	C :	24	31.962	34.876	34.581	1.00 57.31		CCCC
ATOM	7846	CG	LEU	C :	24	31.175	36.141	34.300	1.00 59.43		CCCC
ATOM	7847	CD1	LEU	C :	24	31.599	36.686	32.941	1.00 60.63		CCCC
MOTA	7848	CD2	LEU	C :	24	29.691	35.808	34.289	1.00 59.57		CCCC
MOTA	7849	C	LEU	C :	24	34.307	35.859	34.661	1.00 56.70		CCCC
ATOM	7850	0	LEU	C	24	34.113	37.072	34.726	1.00 55.94		CCCC
ATOM	7851	N	VAL	C :	25	35.384	35.298	34.123	1.00 58.19		CCCC
MOTA	7852	CA	VAL	C :	25	36.501	36.018	33.528	1.00 58.67		CCCC
MOTA	7853	CB	VAL	C	25	37.458	35.003	32.873	1.00 58.62		CCCC
ATOM	7854		VAL		25	38.690	35.706	32.321	1.00 58.46		CCCC
ATOM	7855		VAL		25	37.850	33.948	33.899	1.00 56.87		CCCC
ATOM	7856	С	VAL		25	36.223	37.160	32.543	1.00 59.18		CCCC
MOTA	7857	Ō	VAL		25	36.584	38.308	32.813	1.00 60.04		CCCC
ATOM	7858	N	GLN		26	35.593	36.863	31.410	1.00 58.33		CCCC
MOTA	7859	CA	GLN		26	35.333	37.897	30.413	1.00 58.40		CCCC
MOTA	7860	CB	GLN		26	34.611	37.292	29.217	1.00 58.03		CCCC
MOTA	7861	CG	GLN		26	35.568	36.816	28.139	1.00 58.89		CCCC
MOTA	7862	CD	GLN		26	34.969	35.742	27.255	1.00 59.58		CCCC
ATOM	7863		GLN		26	35.550	35.361	26.239	1.00 57.92		CCCC
			GLN		26	33.803	35.238	27.647	1.00 59.22		CCCC
MOTA	7864				26	34.611	39.159	30.878	1.00 59.27		CCCC
ATOM	7865	C	GLN				40.253	30.397	1.00 59.52		CCCC
ATOM	7866	0	GLN		26 27	34.906	39.030	31.806	1.00 59.66		CCCC
ATOM	7867	N	GLU		27	33.673	40.209	32.292	1.00 53.00		CCCC
ATOM	7868	CA	GLU		27	32.964	39.878	32.292	1.00 61.29		CCCC
ATOM	7869	CB	GLU		27 27	31.493	39.585	31.296	1.00 59.90		CCCC
ATOM	7870	CG	GLU	J		30.706	27.303	54.270			

ATOM	7871	CD	GLU	C	27	30.756	40.731	30.320	1.00	50 25	CCCC
ATOM	7872	OE1	GLU	C	27	30.392	41.856	30.710	1.00	57.67	CCCC
ATOM	7873	OE2	GLU	С	27	31.156	40.503	29.162	1.00	59.31	CCCC
ATOM	7874	С	GLU		27	33.604					
							40.726	33.575		60.55	CCCC
ATOM	7875	0	GLU	С	27	33.284	41.817	34.057	1.00	59.38	CCCC
ATOM	7876	И	ASP	С	28	34.514	39.923	34.115	1 00	61.11	CCCC
ATOM	7877	CA	ASP		28	35.220	40.253	35.342	1.00	61.85	CCCC
ATOM	7878	CB	ASP	С	28	36.276	41.323	35.072	1.00	63.96	CCCC
ATOM	7879	CG	ASP	_	28	37.415	41.261	36.059			
										65.61	CCCC
ATOM	7880	OD1	ASP	С	28	37.249	41.740	37.200	1.00	66.05	CCCC
ATOM	7881	OD2	ASP	С	28	38.471	40.705	35.696	1 00	67.64	CCCC
ATOM											
	7882	С	ASP		28	34.267	40.715	36.439	1.00	61.10	CCCC
ATOM	7883	0	ASP	С	28	34.247	41.883	36.833	1.00	61.18	CCCC
ATOM	7884	N	LYS	C	29	33.468	39.773	36.918	1 00	60.17	CCCC
ATOM	7885	CA	LYS	С	29	32.503	40.033	37.970	1.00	58.55	CCCC
ATOM	7886	CB	LYS	С	29	31.359	40.910	37.461	1.00	58.72	CCCC
ATOM	7887	CG	LYS	^	29						
						30.532	40.273	36.367	1.00	60.57	CCCC
ATOM	7888	CD	LYS	С	29	29.463	41.233	35.858	1.00	63.60	CCCC
ATOM	7889	CE	LYS	C	29	30.083	42.502	35.290		65.37	CCCC
ATOM	7890	NZ	LYS	C	29	29.071	43.462	34.759	1.00	67.23	CCCC
ATOM	7891	С	LYS	С	29	31.945	38.704	38.441	1.00	57.25	CCCC
ATOM	7892	0	LYS	C	29	31.966	37.701				
								37.711		58.36	CCCC
ATOM	7893	N	PRO	С	30	31.460	38.670	39.682	1.00	53.91	CCCC
ATOM	7894	CD	PRO	С	30	31.714	39.654	40.749	1.00	51.72	CCCC
ATOM	7895	CA	PRO		30						
						30.898	37.436	40.223	1.00	51.91	CCCC
ATOM	7896	CB	PRO	С	30	31.111	37.600	41.725	1.00	51.27	CCCC
ATOM	7897	CG	PRO	C	30	30.946	39.074	41.907	1 00	52.87	CCCC
ATOM	7898	С	PRO	C	30	29.425	37.232	39.852	1.00	50.54	CCCC
MOTA	7899	0	PRO	С	30	28.663	38.187	39.698	1.00	48.77	CCCC
ATOM	7900	N	ALA	_	31	29.047	35.967	39.706			
										49.81	CCCC
ATOM	7901	CA	ALA	С	31	27.682	35.582	39.379	1.00	48.75	CCCC
ATOM	7902	CB	ALA	C	31	27.572	35.207	37.903	1.00	47.00	CCCC
ATOM	7903	C	ALA		31						
						27.342	34.383	40.260	1.00	48.41	CCCC
MOTA	7904	0	ALA	С	31	28.192	33.903	41.022	1.00	46.96	CCCC
ATOM	7905	N	CYS	C	32	26.106	33.898	40.158	1 00	46.61	CCCC
ATOM	7906	CA	CYS	С	32	25.688	32.761	40.964	1.00	43.42	CCCC
ATOM	7907	C	CYS	С	32	25.175	31.564	40.167	1.00	42.28	CCCC
ATOM	7908	0	CYS		32						
						24.931	31.639	38.964		41.80	CCCC
MOTA	7909	CB	CYS	С	32	24.594	33.187	41.936	1.00	42.87	CCCC
ATOM	7910	SG	CYS	C	32	25.049	34.554	43.036	1 00	44.86	CCCC
ATOM	7911										
		N	VAL		33	25.036	30.455	40.879	1.00	39.28	CCCC
ATOM	7912	CA	VAL	С	33	24.504	29.216	40.363	1.00	36.94	CCCC
MOTA	7913	CB	VAL	C	33	25.602	28.184	40.093	1 00	35.89	CCCC
ATOM	7914		VAL		33	24.982	26.870	39.682	1.00	34.26	CCCC
MOTA	7915	CG2	VAL	С	`33	26.512	28.670	38.998	1.00	35.46	CCCC
ATOM	7916	С	VAL	C	33	23.675	28.769	41.557		37.86	CCCC
ATOM	7917	0	VAL	C	33	24.175	28.076	42.430	1.00	40.78	CCCC
ATOM	7918	N	CYS	С	34	22.416	29.187	41.596	1.00	37.33	CCCC
ATOM	7919	CA	CYS	~	34	21.510	28.876	42.697		38.02	CCCC
ATOM	7920	С	CYS		34	21.245	27.414	43.017	1.00	38.57	CCCC
ATOM	7921	0	CYS	С	34	21.339	26.545	42.152	1.00	38.22	CCCC
ATOM	7922	CB	CYS		34	20.153	29.527	42.454		38.77	
											CCCC
ATOM	7923	SG	CYS		34	20.203	31.254	41.920	1.00	38.13	CCCC
ATOM	7924	И	HIS	C	35	20.889	27.164	44.273	1.00	38.89	CCCC
ATOM	7925	CA	HIS		35	20.541	25.826				
								44.731		42.30	CCCC
ATOM	7926	CB	HIS		35	20.523	25.744	46.257	1.00	45.69	CCCC
ATOM	7927	CG	HIS	С	35	21.870	25.839	46.888	1.00	49.26	CCCC
ATOM	7928		HIS		35	23.093					
							25.457	46.447		50.89	CCCC
ATOM	7929	NDI	HIS	С	35	22.061	26.373	48.143	1.00	51.13	CCCC
ATOM	7930	CE1	HIS	С	35	23.345	26.319	48.448	1.00	54.28	CCCC
ATOM	7931				35						
			HIS			23.993	25.767	47.436		54.18	CCCC
ATOM	7932	С	HIS	С	35	19.117	25.636	44.255	1.00	43.94	CCCC
MOTA	7933	0	HIS		35	18.315	26.574	44.304		44.82	CCCC
ATOM	7934	N	SER		36	18.791	24.426	43.820		44.20	CCCC
MOTA	7935	CA	SER	С	36	17.454	24.133	43.342	1.00	43.04	CCCC
MOTA	7936	СВ	SER		36	17.190	22.632	43.404		45.38	CCCC
ATOM	7937	OG	SER		36	16.961	22.247	44.748	1.00	48.54	CCCC
ATOM	7938	С	SER	С	36	16.440	24.836	44.225	1.00	41.31	CCCC
ATOM	7939	ō	SER		36					42.40	
						16.531	24.767	45.453			CCCC
MOTA	7940	N	GLY	С	37	15.490	25.527	43.602	1.00	38.78	CCCC
MOTA	7941	CA	GLY	С	37	14.461	26.197	44.368		36.46	CCCC
ATOM	7942	С	GLY		37	14.713	27.646	44.707		35.73	CCCC
ATOM	7943	0	GLY	С	37	14.097	28.174	45.640	1.00	36.23	CCCC
ATOM	7944	N	TYR		38	15.604	28.297	43.965		31.78	CCCC
ATOM	7945	CA	TYR	_	38	15.888	29.699	44.221	1.00	30.70	CCCC

ATOM.	7946	СВ	TYR	C	38	17.067	29.862	45.194	1.00 29.34	cccc
									1.00 29.76	CCCC
ATOM	7947	CG	TYR		38	16.669	29.562	46.606		
ATOM	7948		TYR		38	16.738	28.265	47.111	1.00 30.09	CCCC
ATOM	7949		TYR		38	16.288	27.973	48.382	1.00 29.92	cccc
ATOM	7950		TYR		38	16.141	30.564	47.420	1.00 31.01	CCCC
ATOM	7951	CE2	TYR	С	38	15.690	30.287	48.689	1.00 30.37	CCCC
ATOM	7952	CZ	TYR		38	15.763	28.988	49.165	1.00 33.84	CCCC
ATOM	7953	OH	TYR		38	15.288	28.705	50.429	1.00 39.99	CCCC
										CCCC
ATOM	7954	С	TYR		38	16.146	30.476	42.951	1.00 29.54	
ATOM	7955	0	TYR	Ç	38	16.598	29.921	41.950	1.00 32.21	CCCC
ATOM	7956	N	VAL	С	39	15.859	31.771	43.004	1.00 26.35	CCCC
ATOM	7957	CA	VAL	С	39	16.028	32.626	41.848	1.00 25.17	CCCC
ATOM	7958	CB	VAL		39	14.657	32.839	41.105	1.00 25.23	CCCC
ATOM	7959		VAL		39	14.123	31.503	40.576	1.00 22.93	CCCC
										CCCC
ATOM	7960		VAL		39	13.634	33.456	42.052	1.00 20.90	
ATOM	7961	С	VAL		39	16.562	33.971	42.291	1.00 25.57	CCCC
ATOM	7962	0	VAL	С	39	16.547	34.295	43.485	1.00 23.79	CCCC
ATOM	7963	N	GLY	С	40	17.025	34.749	41.316	1.00 25.53	CCCC
ATOM	7964	CA	GLY	С	40	17.550	36.070	41.588	1.00 26.15	CCCC
ATOM	7965	C	GLY		40	18.992	36.250	41.163	1.00 27.25	CCCC
	7966	ō	GLY		40	19.735	35.273	41.031	1.00 26.49	CCCC
ATOM										
ATOM	7967	N	ALA		41	19.387	37.502	40.938	1.00 28.82	CCCC
MOTA	7968	CA	ALA	С	41	20.762	37.800	40.558	1.00 30.09	CCCC
ATOM	7969	CB	ALA	С	41	20.946	39.249	40.392	1.00 28.46	CCCC
ATOM	7970	С	ALA	С	41	21.694	37.290	41.635	1.00 31.85	CCCC
ATOM	7971	0	ALA		41	22.805	36.917	41.344	1.00 32.63	CCCC
ATOM	7972	N	ARG		42	21.227	37.267	42.882	1.00 35.64	CCCC
ATOM	7973	CA	ARG		42	22.024	36.763	44.005	1.00 36.57	CCCC
ATOM	7974	CB	ARG	С	42	22.261	37.867	45.046	1.00 38.96	cccc
ATOM	7975	CG	ARG	С	42	23.330	38.886	44.638	1.00 40.36	CCCC
ATOM	7976	CD	ARG	С	42	23.493	40.002	45.667	1.00 42.46	CCCC
MOTA	7977	NE	ARG		42	24.227	39.598	46.865	1.00 42.85	CCCC
ATOM	7978	CZ	ARG		42	24.375	40.371	47.940	1.00 42.94	CCCC
										CCCC
ATOM	7979		ARG		42	23.844	41.588	47.972	1.00 41.41	
MOTA	7980		ARG		42	25.052	39.928	48.987	1.00 43.03	CCCC
ATOM	7981	С	ARG	С	42	21.367	35.558	44.683	1.00 36.97	CCCC
ATOM	7982	0	ARG	C	42	21.655	35.264	45.846	1.00 34.31	CCCC
ATOM	7983	N	CYS	С	43	20.474	34.881	43.952	1.00 36.70	CCCC
ATOM	7984	CA	CYS		43	19.786	33.694	44.452	1.00 33.31	CCCC
ATOM	7985	C	CYS		43	19.164	33.960	45.812	1.00 32.61	CCCC
									1.00 31.13	CCCC
MOTA	7986	0	CYS		43	19.267	33.144	46.729		
MOTA .	7987	CB	CYS		43	20.779	32.540	44.575	1.00 37.36	CCCC
MOTA	7988	SG	CYS	С	43	21.679	32.063	43.057	1.00 41.88	CCCC
ATOM	7989	N	GLU	С	44	18.498	35.100	45.934	1.00 32.62	CCCC
ATOM	7990	CA	GLU	С	44	17.897	35.498	47.196	1.00 32.06	CCCC
ATOM	7991	CB	GLU		44	18.093	36.996	47.405	1.00 32.84	CCCC
ATOM	7992	CG	GLU		44	17.225	37.875	46.540	1.00 31.46	CCCC
							38.107	45.162	1.00 34.87	CCCC
ATOM	7993	CD	GLU		44	17.801				
ATOM	7994		GLU		44	17.283	39.006			CCCC
ATOM	7995	OE 2	GLU	С	44	18.760	37.402	44.775	1.00 34.61	CCCC
ATOM	7996	С	GLU	C	44	16.422	35.182	47.330	1.00 32.58	CCCC
ATOM	7997	0	GLU	С	44	15.863	35.255	48.416	1.00 33.75	CCCC
ATOM	7998	N	HIS		45	15.778	34.839	46.225	1.00 33.32	CCCC
ATOM	7999	CA	HIS		45	14.358	34.544	46.271	1.00 30.80	CCCC
ATOM					45	13.636	35.394	45.242	1.00 29.37	CCCC
	8000	CB	HIS							
ATOM	8001	CG	HIS		45	13.568	36.842	45.613	1.00 31.80	CCCC
ATOM	8002	CD2	HIS	С	45	13.535	37.448	46.823	1.00 28.98	CCCC
ATOM	8003	ND1	HIS	С	45	13.447	37.848	44.678	1.00 32.21	CCCC
ATOM	8004	CE1	HIS	С	45	13.336	39.009	45.295	1.00 29.88	CCCC
ATOM	8005		HIS		45	13.386	38.793	46.597	1.00 31.40	CCCC
ATOM	8006	C	HIS		45	14.046	33.081	46.066	1.00 31.10	CCCC
								45.270	1.00 30.86	CCCC
ATOM	8007	0	HIS		45	14.671	32.397			
ATOM	8008	N	ALA		46	13.084	32.611	46.837	1.00 32.65	CCCC
ATOM	8009	CA	ALA		46	12.630	31.242	46.775	1.00 34.39	CCCC
MOTA	8010	CB	ALA	С	46	11.990	30.875	48.107	1.00 31.17	CCCC
MOTA	8011	С	ALA		46	11.587	31.211	45.659	1.00 37.13	CCCC
ATOM	8012	ō	ALA		46	10.720	32.092	45.610	1.00 37.11	CCCC
						11.672	30.255	44.733	1.00 40.22	CCCC
ATOM	8013	N	ASP		47					CCCC
ATOM	8014	CA	ASP		47	10.639	30.224	43.712	1.00 43.75	
ATOM	8015	CB	ASP		47	10.992	29.345	42.492	1.00 45.84	CCCC
ATOM	8016	CG	ASP	С	47	11.483	27.950	42.853	1.00 50.32	CCCC
MOTA	8017	OD1	ASP		47	11.050	27.367	43.877	1.00 51.00	CCCC
ATOM	8018		ASP		47	12.304	27.417	42.067	1.00 52.56	CCCC
ATOM	8019	C	ASP		47	9.417	29.713	44.446	1.00 44.71	CCCC
									1.00 44.30	CCCC
ATOM	8020	0	ASP	Ü	47	9.287	28.534	44.760	T.00 44.30	5005

ATOM	8021	N	LEU	С	48	8.534	30.638	44.775	1.00 47.31	cccc
MOTA	8022	CA	LEU	C	48	7.341		45.503	1.00 49.35	CCCC
MOTA	8023	CB	LEU	С	48	6.541	31.540	45.803	1.00 45.27	CCCC
MOTA	8024	CG	LEU	С	48	7.427	32.561	46.529	1.00 40.98	cccc
ATOM	8025	CD1	LEU	С	48	6.619		46.866	1.00 39.56	CCCC
MOTA	8026	CD2	LEU	С	48	7.985		47.790	1.00 37.29	. cccc
ATOM	8027	С	LEU		48	6.556		44.683	1.00 53.09	cccc
ATOM	8028	0	LEU		48	5.603		45.162	1.00 54.58	
ATOM	8029	N	LEU		49	6.979		43.439	1.00 57.46	CCCC
ATOM	8030	CA	LEU		49	6.341	28.113	42.560		CCCC
ATOM	8031	CB	LEU		49	6.606		41.096	1.00 60.79	CCCC
ATOM	8032	CG	LEU		49	6.036			1.00 61.57	CCCC
ATOM	8033		LEU		49	6.332	29.861	40.758	1.00 62.59	CCCC
ATOM	8034		LEU		49		30.229	39.306	1.00 62.02	CCCC
ATOM	8035	C	LEU		49	4.533	29.856	41.028	1.00 61.67	CCCC
ATOM	8036	Ö	LEU		49	6.951	26.764	42.932	1.00 62.35	CCCC
ATOM	8037	N	ALA		50	7.468	26.021	42.091	1.00 59.48	cccc
ATOM	8038	CA	ALA		50	6.891	26.493	44.235	1.00 64.71	CCCC
ATOM	8039					7.405	25.272	44.833	1.00 67.20	CCCC
ATOM		CB	ALA		50	7.701	25.504	46.320	1.00 67.40	CCCC
ATOM	8040	C	ALA		50	6.379	24.163	44.668	1.00 68.43	CCCC
	8041		ALA		50	5.739		45.685	1.00 69.62	CCCC
ATOM	8042		ALA		50	6.222	23.685	43.521	1.00 68.84	CCCC
ATOM	8043	CB	SER		3		104.628	0.147	1.00103.77	DDDD
ATOM	8044	OG	SER		3		105.958	-0.250	1.00104.37	DDDD
MOTA	8045	C	SER		3		102.628	1.453	1.00102.77	DDDD
MOTA	8046	0	SER		3	-36.949	101.675	1.039	1.00102.67	DDDD
ATOM	8047	N	SER		3		104.920	2.258	1.00102.88	DDDD
ATOM	8048	CA	SER		3		104.063	1.048	1.00103.08	DDDD
ATOM	8049	N	HIS	D	4	-35.231	102.488	2.260	1.00101.60	DDDD
ATOM	8050	CA	HIS	D	4	-34.785	101.188	2.754	1.00100.63	DDDD
ATOM	8051	CB	HIS	Ď	4	-33.358	101.291	3.316	1.00 98.07	DDDD
ATOM	8052	CG	HIS	D	4	-32.322	100.571	2.508	1.00 95.75	DDDD
ATOM	8053	CD2	HIS	D	4	-31.136	100.990	2.006	1.00 94.30	DDDD
A <b>T</b> OM	8054	ND1	HIS	D	4	-32.434	99.240	2.164	1.00 94.09	DDDD
MOTA	8055	CE1	HIS	D	4	-31.363	98.872	1.485	1.00 93.20	DDDD
<b>MOT</b> A	8056	NE2	HIS	D	4	-30.559	99.914	1.376	1.00 93.11	DDDD
ATOM	8057	C	HIS	D	4	-35.715	100.756	3.884	1.00101.12	DDDD
ATOM	8058	0	HIS	D	4	-35.766	99.579	4.253	1.00100.96	DDDD
ATOM	8059	И	PHE	D	5	-36.461	101.721	4.415	1.00101.61	DDDD
MOTA	8060	CA	PHE	D	5		101.478	5.545	1.00102.01	DDDD
ATOM	8061	СВ	PHE	D	5		102.388	6.702	1.00102.86	DDDD
ATOM	8062	CG	PHE	D	5		102.761	6.655	1.00102.90	DDDD
ATOM	8063	CD1	PHE	D	5		103.801	5.836	1.00102.92	DDDD
ATOM	8064	CD2	PHE	D	5		102.034	7.376	1.00103.46	DDDD
ATOM	8065		PHE		5		104.110	5.731	1.00102.86	DDDD
ATOM	8066	CE2	PHE	D	5		102.335	7.278	1.00103.80	DDDD
ATOM	8067	CZ	PHE		5		103.375	6.453	1.00103.37	DDDD
ATOM	8068	C	PHE		5		101.663	5.243	1.00103.57	DDDD
ATOM	8069	Ô	PHE		5		102.407	4.341	1.00101.32	DDDD
ATOM	8070	N	ASN	ח	6		100.977	6.021		
MOTA	8071	CA	ASN		6		101.018	5.863	1.00101.24 1.00101.07	DDDD
ATOM	8072	CB	ASN		6	-41.605	99.633		1.00101.37	DDDD
ATOM	8073	CG	ASN		6	-43.062	99.623	5.417 4.998		DDDD
ATOM	8074		ASN		6	-43.962			1.00101.43	DDDD
ATOM	8075		ASN		6		99.881	5.801	1.00100.90	DDDD
ATOM	8076	C	ASN		6	-43.302	99.319	3.729	1.00101.31	DDDD
ATOM	8077	Õ	ASN		6	-41.798		7.179	1.00100.52	DDDD
ATOM	8078	N	ASP		7		102.529	7.685	1.00100.37	DDDD
ATOM	8079	CA	ASP		7	-42.616		7.718	1.00 99.91	DDDD
ATOM	8080	CB				-43.335		8.971	1.00 99.42	DDDD
ATOM			ASP		7	-44.663		8.704	1.00101.13	DDDD
	8081	CG	ASP		7	-44.472		8.109	1.00102.85	DDDD
MOTA	8082		ASP		7	-43.897		8.795	1.00102.35	DDDD
ATOM	8083		ASP		7	-44.899		6.951	1.00103.31	DDDD
ATOM	8084	C	ASP		7	-43.580	99.373	9.605	1.00 98.30	DDDD
ATOM	8085	0	ASP		7	-43.828	98.394	8.901	1.00 98.76	DDDD
ATOM	8086	N	CYS		8	-43.514	99.296	10.928	1.00 96.27	DDDD
ATOM	8087	CA	CYS		8	-43.691	98.014	11.600	1.00 94.52	DDDD
ATOM	8088	C	CYS		8	-45.128	97.529	11.762	1.00 94.68	DDDD
ATOM	8089	0	CYS		8	-46.046	98.319	11.975	1.00 94.41	DDDD
MOTA	8090	CB	CYS		8	-43.006	98.042	12.970	1.00 92.07	DDDD
ATOM	8091	SG	CYS		8	-41.193	98.240	12.907	1.00 88.51	DDDD
ATOM	8092	N	PRO		9	-45.329	96.202	11.658	1.00 94.74	DDDD
MOTA	8093	CD	PRO	D	9	-44.280	95.293	11.163	1.00 94.74	DDDD
ATOM	8094	CA	PRO		9	-46.602	95.485	11.775	1.00 95.31	DDDD
MOTA	8095	CB	PRO	D	9	-46.198	94.035	11.528	1.00 94.58	DDDD

MOTA	8096	CG	PRO	D	9	-45.086	94.172	10.562	1.00 94.88	DDDD
MOTA	8097	С		D	9	-47.342	95.648	13.107	1.00 96.42	DDDD
ATOM	8098	0	PRO		9	-47,413	96.745	13.670	1.00 96.29	DDDD
MOTA	8099	N	ASP	D	10	-47.889	94.533	13.594	1.00 97.14	DDDD
ATOM	8100	CA	ASP		10	-48.659	94.492	14.835	1.00 97.69	DDDD
ATOM	8101	CB	ASP	D	10	-49.005	93.039	15.177	1.00 98.97	DDDD
	8102	CG		D				15.904		
ATOM					10	-50.336	92.909		1.00100.54	DDDD
ATOM	8103		ASP	D	10	-50.446	93.386	17.054	1.00101.62	DDDD
ATOM	8104			D	10	-51.276	92.330	15.318	1.00100.69	DDDD
ATOM	8105	С		D	10	-47.920	95.144	16.000	1.00 97.34	DDDD
ATOM	8106	0	ASP		10	-47.219	94.477	16.764	1.00 97.87	DDDD
MOTA	8107	N	ALA		11	-48.099	96.454	16.137	1.00 95.68	DDDD
ATOM	8108	CA	ALA	D	11	-47.444	97.214	17.191	1.00 93.68	DDDD
ATOM	8109	CB	ALA	D	11	-47.629	98.706	16.936	1.00 94.04	DDDD
MOTA	8110	С	ALA	D	11	-47.921	96.861	18.599	1.00 92.34	DDDD
MOTA	8111	0	ALA	D	11	-47.903	97.714	19.488	1.00 91.85	DDDD
MOTA	8112	N	ALA	D	12	-48.348	95.614	18.801	1.00 91.06	DDDD
MOTA	8113	CA	ALA	D	12	-48.810	95.158	20.120	1.00 89.37	DDDD
MOTA	8114	CB	ALA	D	12	-49.369	93.744	20.028	1.00 88.91	DDDD
ATOM	8115	С	ALA		12	-47.614	95.191	21.068	1.00 88.11	DDDD
ATOM	8116	Ō	ALA		12	-46.528	94.722	20.716	1.00 88.74	DDDD
ATOM	8117	N	ALA		13	-47.816	95.726	22.270	1.00 85.59	DDDD
ATOM	8118	CA	ALA		13	-46.726	95.861	23.234	1.00 83.05	DDDD
MOTA	8119	CB	ALA		13	-46.720	94.514	23.538	1.00 81.88	DDDD
ATOM	8120	С	ALA		13	-45.724	96.777	22.547	1.00 81.43	DDDD
ATOM	8121	0	ALA		13	-45.901	97.994	22.550	1.00 82.76	DDDD
MOTA	8122	N	GLN	D	14	-44.694	96.185	21.945	1.00 78.55	DDDD
ATOM	8123	CA	GLN	D	14	-43.660	96.928	21.225	1.00 76.00	DDDD
ATOM	8124	CB	GLN	D	14	-43.307	98.235	21.948	1.00 77.31	DDDD
MOTA	8125	CG	GLN	D	14	-42.624	98.039	23.289	1.00 80.17	DDDD
MOTA	8126	CD	GLN	D	14	-42.535	99.317	24.097	1.00 82.07	DDDD
ATOM	8127	OE1	GLN	D	14	-42.010	100.331	23.628	1.00 82.95	DDDD
ATOM	8128	NE2	GLN	D	14	-43.046	99.274	25.328	1.00 83.05	DDDD
ATOM	8129	С	GLN	D	14	-42.405	96.079	21.088	1.00 73.09	DDDD
ATOM	8130	0	GLN	D	14	-41.961	95.444	22.045	1.00 72.32	DDDD
ATOM	8131	N	PHE	D	15	-41.838	96.069	19.889	1.00 69.90	DDDD
ATOM	8132	CA	PHE	D	15	-40.633	95.302	19.635	1.00 66.79	DDDD
MOTA	8133	СВ	PHE	D	15	-40.399	95.158	18.126	1.00 67.15	DDDD
ATOM	8134	CG	PHE	D	15	-39.244	94.256	17.775	1.00 66.47	DDDD
ATOM	8135	CD1		D	15	-39.195	92.953	18.252	1.00 65.39	DDDD
ATOM	8136	CD2	PHE	D	15	-38.204	94.713	16.974	1.00 66.61	DDDD
ATOM	8137	CE1		Ď	15	-38.134	92.122	17.938	1.00 65.41	DDDD
ATOM	8138	CE2	PHE	D	15	-37.137	93.884	16.654	1.00 66.07	DDDD
ATOM	8139	CZ	PHE		15	-37.103	92.588	17.137	1.00 66.29	DDDD
TATOM :	8140	-C	PHE.		15	<del>-39.445</del>	96.004	20.291	1.00 64.59	_ממממ_
ATOM	8141	0	PHE	D	15	-38.688	95.383	21.043	1.00 63.48	DDDD
ATOM	8142	N	CYS	D	16	-39.288	97.297	20.003	1.00 60.06	DDDD
ATOM	8143	CA	CYS		16	-38.203	98.069	20.582	1.00 56.11	DDDD
ATOM	8144	C	CYS		16	-38.595	98.551	21.958	1.00 54.98	סטטט
MOTA	8145	0	CYS		16	-39,692	99.067	22.159	1.00 55.03	DDDD
MOTA	8146	CB	CYS		16	-37.874	99 274	19.723	1.00 54.09	DDDD
ATOM	8147	SG	CYS		16	-37.799	98.833	17.982	1.00 52.53	DDDD
ATOM	8148	N	PHE		17	-37.683	98.398	22.907	1.00 53.23	DDDD
ATOM	8149	CA	PHE		17	-37.957	98.813	24.266	1.00 51.60	DDDD
ATOM	8150	CB	PHE		17	-37.194	97.926	25.239	1.00 50.39	DDDD
ATOM	8151	CG	PHE		17	-37.643	96.494	25.225	1.00 49.26	DDDD
MOTA	8152	CD1	PHE	D	17	-38.923	96.153	25.629	1.00 49.21	DDDD
ATOM	8153	CD2	PHE	D	17	-36.773	95.484	24.845	1.00 49.06	DDDD
ATOM	8154	CE1	PHE	D	17	-39.332	94.819	25.663	1.00 50.68	DDDD
ATOM	8155	CE2	PHE	D	17	-37.172	94.150	24.875	1.00 50.32	DDDD
ATOM	8156	CZ	PHE	D	17	-38.455	93.818	25.288	1.00 49.89	DDDD
ATOM	8157	С	PHE	D	17	-37.624	100.267	24.516	1.00 50.37	DDDD
ATOM	8158	0	PHE	D	17	-38.246	100.901	25.356	1.00 52.70	DDDD
ATOM	8159	N	HIS		18		100.804	23.786	1.00 50.02	DDDD
ATOM	8160	CA	HIS		18		102.196	23.977	1.00 50.14	DDDD
ATOM	8161	CB	HIS		18		102.271	24.971	1.00 49.93	DDDD
ATOM	8162	CG	HIS		18		101.809	26.341	1.00 49.67	DDDD
ATOM	8163		HIS		18		100.582	26.913	1.00 50.22	DDDD
ATOM	8164		HIS		18		100.562	27.271	1.00 30.22	DDDD
			HIS		18		102.840	28.355	1.00 49.42	DDDD
ATOM	8165								1.00 49.42	DDDD
ATOM	8166		HIS		18		100.691	28.163	1.00 48.22	DDDD
MOTA	8167	C	HIS		18		102.879	22.669		DDDD
MOTA	8168	0	HIS		18		103.361	22.478	1.00 49.27	
ATOM	8169	N	GLY		19		102.925	21.776	1.00 51.67	DDDD
ATOM	8170	CA	GLY	D	19	-36.669	103.541	20.485	1.00 54.08	DDDD

ATOM	8171	С	GLY	D	19	-37.860	103.227	19.610	1.00 56.17	DDDD
ATOM	8172	0	GLY	D	19		102.542	20.037	1.00 54.47	DDDD
ATOM	8173	N	THR		20		103.728	18.383	1.00 58.48	DDDD
ATOM ATOM	8174	CA	THR		20		103.489	17.465	1.00 60.99	DDDD
ATOM	8175 8176	CB OG1	THR THR		20 20		104.772	16.692	1.00 59.85	DDDD
ATOM	8177	CG2	THR		20		105.448	16.296	1.00 59.75	DDDD
ATOM	8178	C	THR		20		103.033	17.574 16.505	1.00 60.65 1.00 63.26	DDDD
ATOM	8179	0	THR		20	-37.518	102.118	16.083	1.00 63.28	DDDD DDDD
ATOM	8180	N	CYS	Đ	21		101.607	16.184	1.00 67.02	DDDD
ATOM	8181	CA	CYS	D	21	-39.625	100.465	15.288	1.00 70.78	DDDD
ATOM	8182	C	CYS	D	21		100.905	13.833	1.00 71.02	DDDD
ATOM ATOM	8183 8184	O	CYS		21		101.814	13.514	1.00 72.65	DDDD
ATOM	8185	CB SG	CYS	D D	21 21	-40.730 -40.598		15.636	1.00 74.38	DDDD
ATOM	8186	N	ARG		22		97.851 100.257	14.811 12.958	1.00 83.40 1.00 70.21	DDDD
MOTA	8187	CA	ARG		22		100.553	11.531	1.00 70.21	DDDD DDDD
MOTA	8188	CB	ARG	D	22		101.527	11.170	1.00 67.40	DDDD
ATOM	8189	CG	ARG	D	22		101.139	11.793	1.00 65.22	DDDD
ATOM	8190	CD	ARG		22	-35.373	101.304	10.869	1.00 61.38	DDDD
ATOM	8191	NE	ARG		22		102.691	10.697	1.00 59.09	DDDD
ATOM ATOM	8192 8193	CZ	ARG	•	22		103.069	10.471	1.00 59.99	DDDD
ATOM	8194		ARG ARG		22 22		102.165	10.401	1.00 58.75	DDDD
ATOM	8195	C	ARG		22	-38.803	104.349 99.238	10.291	1.00 59.37	DDDD
ATOM	8196	0	ARG		22	-38.071		11.276	1.00 70.69 1.00 70.54	DDDD
ATOM	8197	N	PHE	D	23	-39.448		9.654	1.00 72.41	DDDD
MOTA	8198	CA	PHE	D	23	-39.305		8.888	1.00 73.60	DDDD
ATOM	8199	CB	PHE	D	23	-40.636		8.261	1.00 72.59	DDDD
ATOM ATOM	8200 8201	CG	PHE	D	23	-40.696		7.859	1.00 72.59	DDDD
ATOM	8201	CD1 CD2	PHE PHE	D D	23 23	-40.911	95.027	8.812	1.00 72.31	DDDD
ATOM	8203	CE1	PHE	D	23	-40.497 -40.926		6.534 8.455	1.00 72.46	DDDD
MOTA	8204	CE2	PHE	D	23	-40.508		6.164	1.00 72.00 1.00 71.48	DDDD DDDD
MOTA	8205	CZ	PHE	D	23	-40.723		7.127	1.00 71.69	DDDD
ATOM	8206	C	PHE	D	23	-38.275	98.053	7.791	1.00 75.51	DDDD
ATOM	8207	0	PHE		23	-38.310		7.068	1.00 75.62	DDDD
ATOM ATOM	8208 8209	N	LEU		24	-37.349		7.669	1.00 77.58	DDDD
ATOM	8210	CA CB	LEU		24 24	-36.330 -35.046		6.635	1.00 79.44	DDDD
ATOM	8211	CG	LEU		24	-34.372	96.506 97.107	7.075 8.312	1.00 80.25 1.00 81.26	DDDD
ATOM	8212	CD1	LEU		24	-33.016	96.436	8.511	1.00 80.66	DDDD DDDD
ATOM	8213	CD2	LEU	D	24	-34.215	98.625	8.149	1.00 80.26	DDDD
ATOM	8214	C	LEU		24	-36.841	96.605	5.335	1.00 80.41	DDDD
ATOM	8215	-0	LEU		24	-36.739		5.104		. ממממ
ATOM ATOM	8216 8217	N CA	VAL VAL		25 25	-37.415	97.471	4.505	1.00 81.42	DDDD
ATOM	8218	CB	VAL		25	-37.956 -37.990	97.099 98.334	3.205 2.264	1.00 81.36	DDDD
MOTA	8219	CG1	VAL		25	-38.218		0.825	1.00 82.38 1.00 83.40	DDDD DDDD
MOTA	8220		VAL		25	-39.082		2.711	1.00 81.68	DDDD
ATOM	8221	С	VAL		25	-37.068	96.034	2.585	1.00 80.91	DDDD
ATOM	8222	0	VAL		25	-37.524	94.951	2.224	1.00 80.19	DDDD
ATOM ATOM	8223 8224	N	GLN		26	-35.787		2.488	1.00 80.80	DDDD
ATOM	8225	CA CB	GLN GLN		26 26	~34.783 ~33.425		1.915	1.00 81.26	DDDD
ATOM	8226	CG	GLN		26	-33.425 -32.359		1.956 1.112	1.00 81.43	DDDD
<b>ATOM</b>	8227	CD	GLN		26	-32.656		-0.369	1.00 82.64	DDDD DDDD
ATOM	8228	OE1			26	-31.834	96.091	-1.148	1.00 81.48	DDDD
ATOM	8229	NE2			26	-33.834	95.133	-0.770	1.00 82.43	DDDD
ATOM	8230	C	GLN		26	-34.685		2.611	1.00 81.21	DDDD
ATOM ATOM	8231	0	GLN		26	-35.312		2.189	1.00 81.29	DDDD
ATOM	8232 8233	N CA	GLU GLU		27 27	-33.895		3.678	1.00 80.48	DDDD
ATOM	8234	CB	GLU		27	-33.706 -32.774	92.803 93.038	4.412 5.599	1.00 79.46	DDDD
ATOM	8235	CG	GLU		27	-31.337	92.643	5.313	1.00 78.58 1.00 77.40	DDDD DDDD
MOTA	8236	CD	GLU		27	-31.198	91.160	4.990	1.00 76.89	DDDD
MOTA	8237	OE1			27	-31.570	90.320	5.839	1.00 75.76	DDDD
MOTA	8238	OE2			27	-30.715	90.833	3.886	1.00 76.13	DDDD
ATOM	8239	C	GLU		27	-34.993	92.136	4.883	1.00 79.19	DDDD
ATOM ATOM	8240 8241	O N	GLU ASP		27 28	-34.964	91.038	5.447	1.00 78.22	DDDD
ATOM	8242	CA	ASP		28	-36.121 -37.4 <b>1</b> 7	92.798 92.259	4.648 5.044	1.00 79.02 1.00 78.41	DDDD
ATOM	8243	CB	ASP		28	-37.417		4.105	1.00 78.41	DDDD DDDD
MOTA	8244	CG	ASP		28	-39.137	90.471	4.479	1.00 81.94	DDDD
MOTA	8245	OD1	ASP	D	28	-40.153	91.194	4.509	1.00 84.03	DDDD

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ATOM	8246	OD2	ASP	: מ	28	-39	.166	89.249	4.741	1.00	82.05	DDDD
ATOM	8247	C	ASP		28		401	91.773	6.494		75.99	DDDD
MOTA	8248	0	ASP		28	-37		90.579	6.760		76.07	DDDD
ATOM	8249	N	LYS	D :	29	-37	. 525	92.712	7.425	1.00	72.95	DDDD
ATOM	8250	CA	LYS	D :	29	-37.	. 539	92.404	8.849	1.00	68.86	סססס
ATOM	8251	CB	LYS	D :	29	-36	. 343	91.525	9.227	1,00	69.72	DDDD
ATOM	8252	CG	LYS		29		. 992	92.065	8.764		69.86	DDDD
ATOM	8253	CD	LYS		29		. 807	91.362	9.443		69.46	DDDD
ATOM	8254	CE	LYS	D 2	29	-33	.808	89.841	9.266	1.00	69.00	DDDD
ATOM	8255	NZ	LYS	D 2	29	-34	.763	89.146	10.180	1.00	66.82	DDDD
ATOM	8256	С	LYS	ם מ	29	-37	. 496	93.687	9.669	1.00	66.09	DDDD
ATOM	8257	ō	LYS		29		.033	94.724	9.192		66.19	DDDD
ATOM	8258	N	PRO		30		.002	93.636	10.910		63.38	DDDD
ATOM	8259	CD	PRO	D :	30	-38	.920	92.593	11.391		63.81	DDDD
ATOM	8260	CA	PRO	D :	30	-38	. 023	94.789	11.815	1.00	61.47	DDDD
ATOM	8261	CB	PRO	D :	30	-39	. 057	94.392	12.864	1.00	61.89	DDDD
ATOM	8262	CG	PRO		30		.929	93.401	12.142		63.47	DDDD
ATOM	8263	С	PRO		30		. 663	95.063	12.450		59.37	DDDD
ATOM	8264	0	PRO	D .	30	-35	. 925	94.142	12.796	1.00	59.56	DDDD
ATOM	8265	N	ALA	D :	31	-36	. 345	96.342	12.588	1.00	56.65	DDDD
ATOM	8266	CA	ALA		31		.100	96.787	13.195	1.00	53.19	DDDD
								97.249			53.16	DDDD
ATOM	8267	CB	ALA		31		.130		12.130			
ATOM	8268	С	ALA	D :	31		. 485	97.949	14.093		51.56	DDDD.
ATOM	8269	0	ALA	D :	31	-36	.589	98.469	13.999	1.00	52.38	DDDD
ATOM	8270	N	CYS	D :	32	-34	. 589	98.365	14.969	1.00	49.42	DDDD
ATOM	8271	CA	CYS		32		. 914	99.465	15.854	1.00	45.17	DDDD
											43.45	DDDD
ATOM	8272	C	CYS		32			100.634	15.695			
ATOM	8273	0	CYS	D :	32 .	-32	. 925	100.549	15.048	1.00	40.89	DDDD
MOTA	8274	CB	CYS	D :	32	-34	.875	99.017	17.316	1.00	46.79	DDDD
ATOM	8275	SG	CYS	D :	32	-36	.091	97.757	17.788	1.00	47.52	DDDD
MOTA	8276	N	VAL		33			101.738	16.295		41.42	DDDD
												DDDD
ATOM	8277	CA	VAL		33			102.971	16.329		40.72	
ATOM	8278	CB	VAL	D :	33	-34	. 234	104.074	15.399	1.00	38.43	DDDD
ATOM	8279	CG1	VAL	D :	33	-33	. 268	105.244	15.292	1.00	35.19	DDDD
ATOM	8280	CG2	VAL	D :	33	-34	.501	103.518	14.018	1.00	35.59	DDDD
ATOM	8281	C	VAL		33			103.313	17.788		42.31	DDDD
											42.96	DDDD
ATOM	8282	0	VAL		33			103.627	18.179			
ATOM	8283	N	CYS		34			103.202	18.599		44.66	DDDD
ATOM	8284	CA	CYS	D :	34	-32	.930	103.459	20.030	1.00	44.07	DDDD
ATOM	8285	С	CYS	D :	34	-32	.835	104.919	20.375	1.00	44.95	DDDD
ATOM	8286	ō	CYS		34			105.687	19.658		45.06	DDDD
								102.779			42.78	DDDD
ATOM	8287	СВ	CYS		34				20.787			
MOTA	8288	SG	CYS	D.	34	-31	.464	101.050	20.403		42.58	DDDD
ATOM	8289	N	HIS	D :	35	-33	.460	105.275	21.497	1.00	46.05	DDDD
······MOTA	82'90"	CA	HIS	D	35***	-33	.404	106.627	22:035	-100	48.44	DDDD
ATOM	8291	СВ	HIS		35			106.799	23.187	1.00	51.02	DDDD
		CG			35			106.524	22.812		56.71	DDDD
ATOM	8292		HIS									
ATOM	8293		HIS		35			106.020	23.534		58.20	DDDD
ATOM	8294	ND1	HIS	D .	35	-36	.343	106.825	21.567	1.00	57.83	. DDDD
ATOM	8295	CE1	HIS	D :	35	-37	.628	106.518	21.539	1.00	57.88	DDDD
ATOM	8296		HIS		35 <sup>°</sup>			106.029	22.720	1.00	60.41	DDDD
	8297		HIS		35			106.696	22.597		49.44	DDDD
ATOM		С										
ATOM	8298	0	HIS		35			105.675	23.026		50.17	DDDD
ATOM	8299	N	SER	D	36			107.870	22.611		50.47	DDDD
ATOM	8300	CA	SER	D	36	-30	.017	107.956	23.135	1.00	52.07	DDDD
ATOM	8301	СВ	SER		36			109.410	23.239	1.00	53.76	DDDD
	8302		SER		36			110.087	24.202		57.81	DDDD
ATOM		OG										
ATOM	8303	С	SER		36			107.288	24.510		52.10	DDDD
ATOM	8304	0	SER	D	36	-30	.804	107.376	25.347		51.79	DDDD
ATOM	8305	N	GLY	D	37	-28	.764	106.607	24.723	1.00	51.08	DDDD
ATOM					37			105.939	25.988	1.00	47.35	DDDD
177 01.1	8306	( '.	[-1.Y					_				
nmov.	8306	CA	GLY		27	~ ~ ~	001	104 401	26 050	1 00	45 11	(1) 11 11 1
MOTA	8307	С	GLY	D	37			104.481	26.050		45.11	DDDD
MOTA MOTA	8307 8308			D D	37	-28	.979	103.901	27.133	1.00	46.30	DDDD
	8307	С	GLY	D D		-28 -29	.979 .214	103.901 103.879		1.00 1.00	46.30 42.33	DDDD DDDD
MOTA MOTA	8307 8308 8309	С О И	GLY GLY TYR	D D D	37 38	-28 -29	.979 .214	103.901 103.879	27.133	1.00 1.00	46.30	DDDD
MOTA MOTA MOTA	8307 8308 8309 8310	C O N CA	GLY GLY TYR TYR	D D D	37 38 38	-28 -29 -29	.979 .214 .602	103.901 103.879 102.476	27.133 24.906 24.883	1.00 1.00 1.00	46.30 42.33 39.79	DDDD DDDD DDDD
MOTA MOTA MOTA MOTA	8307 8308 8309 8310 8311	C N CA CB	GLY GLY TYR TYR TYR	D D D D	37 38 38 38	-28 -29 -29 -31	.979 .214 .602 .118	103.901 103.879 102.476 102.328	27.133 24.906 24.883 24.854	1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34	DDDD DDDD DDDD DDDD
MOTA MOTA MOTA MOTA MOTA	8307 8308 8309 8310 8311 8312	C O N CA CB CG	GLY GLY TYR TYR TYR TYR	D D D D D	37 38 38 38 38	-28 -29 -29 -31 -31	.979 .214 .602 .118 .750	103.901 103.879 102.476 102.328 102.721	27.133 24.906 24.883 24.854 26.155	1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30	DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8309 8310 8311 8312 8313	C O N CA CB CG CD1	GLY GLY TYR TYR TYR TYR	D D D D D D D	37 38 38 38 38 38	-28 -29 -29 -31 -31	.979 .214 .602 .118 .750	103.901 103.879 102.476 102.328 102.721 104.057	27.133 24.906 24.883 24.854 26.155 26.441	1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12	DDDD DDDD DDDD DDDD DDDD
MOTA MOTA MOTA MOTA MOTA	8307 8308 8309 8310 8311 8312	C O N CA CB CG CD1	GLY GLY TYR TYR TYR TYR	D D D D D D D	37 38 38 38 38	-28 -29 -29 -31 -31	.979 .214 .602 .118 .750	103.901 103.879 102.476 102.328 102.721	27.133 24.906 24.883 24.854 26.155	1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87	DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8309 8310 8311 8312 8313	C N CA CB CG CD1 CE1	GLY GLY TYR TYR TYR TYR TYR	D D D D D D D D	37 38 38 38 38 38 38	-28 -29 -29 -31 -31 -32	.979 .214 .602 .118 .750 .025	103.901 103.879 102.476 102.328 102.721 104.057 104.428	27.133 24.906 24.883 24.854 26.155 26.441	1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12	DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8309 8310 8311 8312 8313 8314 8315	C O N CA CB CG CD1 CE1 CD2	GLY GLY TYR TYR TYR TYR TYR TYR	0 0 0 0 0 0 0	37 38 38 38 38 38 38 38	-28 -29 -31 -31 -32 -32	.979 .214 .602 .118 .750 .025 .526	103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759	27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145	1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03	DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8310 8311 8312 8313 8314 8315 8316	C O N CA CB CG CD1 CE1 CD2 CE2	GLY TYR TYR TYR TYR TYR TYR TYR TYR	0 0 0 0 0 0 0 0 0	37 38 38 38 38 38 38 38 38	-28 -29 -29 -31 -31 -32 -32 -32	.979 .214 .602 .118 .750 .025 .526 .002	103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120	27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389	1.00 1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8310 8311 8312 8313 8314 8315 8316 8317	C O N CA CB CG CD1 CE1 CD2 CE2 CZ	GLY GLY TYR TYR TYR TYR TYR TYR TYR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 38 38 38 38 38 38 38 38 38	-28 -29 -29 -31 -31 -32 -32 -32 -32	.979 .214 .602 .118 .750 .025 .526 .002 .502	103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120 103.456	27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03 36.66	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8310 8311 8312 8313 8314 8315 8316	C O N CA CB CG CD1 CE1 CD2 CE2	GLY TYR TYR TYR TYR TYR TYR TYR TYR	0 0 0 0 0 0 0 0 0 0 0	37 38 38 38 38 38 38 38 38 38 38	-28 -29 -29 -31 -31 -32 -32 -32 -32 -32	.979 .214 .602 .118 .750 .025 .526 .002 .756 .197	103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120 103.456 103.831	27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652 29.902	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03 36.66 40.47	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8310 8311 8312 8313 8314 8315 8316 8317	C O N CA CB CG CD1 CE1 CD2 CE2 CZ	GLY GLY TYR TYR TYR TYR TYR TYR TYR	D D D D D D D D D D	37 38 38 38 38 38 38 38 38 38	-28 -29 -29 -31 -31 -32 -32 -32 -32 -32	.979 .214 .602 .118 .750 .025 .526 .002 .756 .197	103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120 103.456	27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03 36.66 40.47 38.63	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8309 8310 8311 8312 8313 8314 8315 8316 8317 8318	C O N CA CB CG CD1 CE1 CD2 CE2 CZ OH	GLY GLY TYR TYR TYR TYR TYR TYR TYR TYR		37 38 38 38 38 38 38 38 38 38 38	-28 -29 -29 -31 -32 -32 -32 -32 -33 -28	.979 .214 .602 .118 .750 .025 .526 .002 .756 .197 .994	103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120 103.456 103.831	27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652 29.902	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03 36.66 40.47	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8307 8308 8309 8310 8311 8312 8313 8314 8315 8316 8317 8318	C O N CA CB CG CD1 CE1 CD2 CE2 CZ OH C	GLY GLY TYR TYR TYR TYR TYR TYR TYR TYR TYR TY		37 38 38 38 38 38 38 38 38 38 38 38	-28 -29 -29 -31 -32 -32 -32 -32 -33 -28	.979 .214 .602 .118 .750 .025 .526 .002 .756 .197 .994	103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120 103.456 103.831 101.723	27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652 29.902 23.727	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03 36.66 40.47 38.63	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD

	ATOM 8	8321 N	VAL	D 39	-28 914	100.412	23.883	1 00 37 50	2222	
		8322 C			-28.325		22.860	1.00 37.56 1.00 36.13	DDDD	
		8323 CI			-26.836		23.145		DDDD	
			31 VAL	D 39		100.616	23.143	1.00 35.50 1.00 34.34	DDDD	
			32 VAL		-26.666		24.539	1.00 34.34	DDDD	
		3326 C	VAL		-29.053		22.833		DDDD	
		3327 0	VAL		-29.893		23.695	1.00 36.62	DDDD	
		3328 N	GLY		-28.734		21.831	1.00 34.82	DDDD	
		3329 C			-29.371		21.704	1.00 38.63	DDDD	
		3330 C	GLY 1		-30.275		20.497	1.00 41.20	DDDD	
		3331 0	GLY I		-30.870			1.00 42.51	DDDD	
		332 N	ALA I		-30.369		20.025 19.988	1.00 42.84	DDDD	
		3333 CZ			-31.223		18.847	1.00 43.02	DDDD	
		3334 CE			-31.259			1.00 43.79	DDDD	
		3335 C	ALA		-32.644		18.620	1.00 42.04	DDDD	
		3336 0	ALA I		-33.404		19.113	1.00 45.73	DDDD	
		337 N	ARG I		-32.996		18.189	1.00 46.94	DDDD	
		338 C7			-34.312		20.388	1.00 44.95	DDDD	
		339 CE			-35.107		20.763	1.00 43.65	DDDD	
		340 C			-35.398		21.454	1.00 44.34	DDDD	
		341 CI			-36.405		20.567	1.00 47.09	DDDD	
		342 NE			-37.698		21.242	1.00 45.94	DDDD	
		343 CZ			-38.704		21.431	1.00 47.03	DDDD	
		_	11 ARG I		-38.590		22.137	1.00 45.48	DDDD	
			12 ARG I		-39.820		22.737	1.00 45.23	DDDD	
		346 C	ARG I		-34.210		22.260	1.00 43.31	DDDD	
		347 0	ARG I		-35.172		21.680	1.00 42.39	DDDD	
		348 N	CYS		-33.172		22.358	1.00 41.67	DDDD	
		349 CF					21.701	1.00 41.24	DDDD	
		350 C	CYS		-32.826		22.540	1.00 39.91	DDDD	
		351 0	CYS		-33.230 -33.777		23.972	1.00 38.26	DDDD	
		352 CE					24.672	1.00 38.48	DDDD	
		353 SG			-33.660		22.017	1.00 41.36	DDDD	
		354 N	GLU I			100.209	20.296	1.00 42.36	DDDD	
		355 CA			-32.938	97.112	24.409	1.00 37.00	DDDD	
		356 CE			-33.314	96.672	25.740	1.00 37.44	DDDD	
		357 CG			-33.458		25.757	1.00 37.01	DDDD	
					-32.149	94.344	25.580	1.00 39.98	DDDD	
					-31.745		24.123	1.00 43.39	DDDD	
			1 GLU D		-30.819	93.279	23.897	1.00 42.21	DDDD	
		361 C	2 GLU E		-32.341	94.700	23.202	1.00 45.04	DDDD	
		362 0	GLU D		-32.368	97.093	26.851	1.00 37.12	DDDD	
		363 N	GLU I		-32.782	97.203	28.007	1.00 37.92	DDDD	
		364 CA			-31.112	97.351	26.495	1.00 36.22	DDDD	
		365 CB			-30.082	97.700	27.469	1.00 34.67	DDDD	
		366 CG				96.813	27.229	1.00 32.81	DDDD	
			2 HIS D		-29.105	95.376	27.551	1.00 31.26	DDDD	
			1 HIS D		-29.984	94.786	28.395	1.00 32.33	DDDD	
			1 HIS D		-28.373	94.355	26.983	1.00 30.82	DDDD	
			2 HIS D			93.198	27.461	1.00 32.42	DDDD	
		370 NE 371 C	Z HIS D		-29.771	93.430	28.321	1.00 31.21	DDDD	
		372 0			-29.602	99.142	27.545	1.00 36.34	DDDD	
		372 U	HIS D		-29.343		26.528	1.00 36.40	DDDD	
		374 CA	ALA D		-29.468	99.638	28.770	1.00 38.10	DDDD	
		375 CB				100.984	28.993	1.00 39.27	DDDD	
		376 C				101.369	30.442	1.00 36.00	DDDD	
		377 0	ALA D			100.863	28.674	1.00 42.15	DDDD	
			ALA D			99.856	29.034	1.00 43.18	DDDD	
		378 N 379 CA	ASP D		-26.886		27.981	1.00 44.28	DDDD	
						101.733	27.660	1.00 48.13	DDDD	
						102.533	26.394	1.00 50.74	DDDD	
		381 CG				104.040	26.554	1.00 55.45	DDDD	
			1 ASP D		-24.870		25.628	1.00 56.10	DDDD	
			2 ASP D		-25.854		27.584	1.00 55.78	DDDD	
		384 C	ASP D		-24.634		28.846	1.00 48.88	DDDD	
		385 O	ASP D		-24.125		28.890	1.00 50.24	DDDD	
		386 N	LEU D		-24.502		29.813	1.00 49.79	DDDD	
		387 CA			-23.777		31.033	1.00 50.03	DDDD	
		388 CB	LEU D		-23.448		31.738	1.00 43.92	DDDD	
		389 CG	. –		-24.725		32.024	1.00 39.21	DDDD	
			L LEU D		-24.414		32.907	1.00 38.29	DDDD	
			2 LEU D		-25.738		32.686	1.00 33.84	DDDD	
		392 C	LEU D		~22.533		30.858	1.00 54.42	DDDD	
		393 0	LEU D		-22.193		31.743	1.00 53.89	DDDD	
		394 N	LEU D		-21.846		29.728	1.00 59.71	DDDD	
A.	TOM 83	395 CA	LEU D	49	-20.662	103.136	29.519	1.00 65.06	DDDD	

ATOM	8396	СВ	LEU	D	49	-19.905	102.709	28.254	1 00	65.35	DDDD	
ATOM	8397	CG	LEU		49		101.362	28.421		67.09	DDDD	
ATOM	8398		LEU		49		101.055	27.185				
			LEU							66.90	DDDD	
ATOM	8399				49		101.408	29.675		65.93	DDDD	
ATOM	8400	C	LEU		49		104.613	29.437		67.57	DDDD	
ATOM	8401	0	LEU		49		105.222	28.355	1.00	67.26	DDDD	
ATOM	8402	N	ALA	D	50	-21.394	105.151	30.615	1.00	69.32	DDDD	
ATOM	8403	CA	ALA	D	50	-21.837	106.526	30.842	1.00	70.60	DDDD	
ATOM	8404	CB	ALA	D	50	-22.284	107.183	29.535	1.00	71.26	DDDD	
ATOM	8405	С	ALA	D	50	-23.014	106.444	31.815		71.55	DDDD	
ATOM	8406		ALA		50		105.455	31.713		72.37	DDDD	
ATOM	8407		ALA		50		107.357	32.656		71.45	DDDD	
ATOM	8408		WAT				109.746	64.857		65.87	нннн	
											•	
ATOM	8409		WAT			10.566	57.569	26.005		35.08	нннн	
ATOM	8410		WAT				105.392	26.683		30.20	нннн	
ATOM	8411		WAT			16.707	58.583	53.435	1.00	78.12	нннн	
ATOM	8412	OH2	WAT	Н	745	7.669	41.566	68.779	1.00	54.86	нннн	
MOTA	8413	OH2	WAT	Н	746	12.553	37.341	42.264	1.00	28.70	нннн	
ATOM	8414	OH2	WAT	Н	747	20.286	34.395	34.019	1.00	29.50	нннн	
ATOM	8415		WAT			-16.020	72.724	53.375		48.72	нннн	
ATOM	8416		WAT			-27.461	97.574	30.470		23.20	нннн	
ATOM	8417		WAT			-5.903	30.107	69.838		34.73	нннн	
ATOM	8418		WAT				44.739					
						20.125		57.981		28.84	нннн	
ATOM	8419		WAT			22.847	36.377	13.283		40.42	нннн	
ATOM	8420		WAT			26.486	32.138	36.888		36.41	нннн	
ATOM	8421		WAT			-26.065	97.686	13.932		29.48	нннн	
ATOM	8422	OH2	TAW	Н	755	-7.275	72.234	27.479	1.00	33.04	нннн	
ATOM	8423	OH2	WAT	Н	756	-18.213	74.386	12.461	1.00	34.92	нннн	
ATOM	8424	OH2	WAT	Н	757	-23.688	98.948	16.215	1.00	36.01	нннн	
ATOM	8425	OH2	WAT	Н	758	-31.330	104.901	8.663		52.95	нннн	
ATOM	8426		WAT			-4.616	71.623	32.799		43.51	нннн	
ATOM	8427		WAT			10.202	34.571	47.087		30.05	нннн	
ATOM	8428		WAT			-27.604	93.007	50.788		39.57	нннн	
ATOM	8429		WAT			7.639	48.007	47.007		32.64	нннн	
ATOM	8430		WAT			21.476	23.966	19.021	1.00	33.79	нннн	
ATOM	8431	OH2	WAT	Н	764	-33.451	100.613	52.546	1.00	41.02	нннн	
ATOM	8432	OH2	WAT	Н	765	-26.914	83.917	33.695	1.00	53.62	нннн	
ATOM	8433	OH2	WAT	H	766	13.701	30.669	51.617	1.00	36.79	нннн	
ATOM	8434		WAT			20.283	45.200	48.577		41.53	нннн	
ATOM	8435		WAT			8.454	26.965	61.736		39.43	нннн	
ATOM	8436		WAT			-13.004	97.432	-4.461		50.73	нннн	
ATOM	8437		WAT			-22.939	79.722	35.832		44.14	нннн	
ATOM	8438	UHZ	TAW			-20.863	78.338	31.761		43.71	нннн	
ATOM	8439			н		20.144	26.267	17.744	1.00	60.93	нннн	
		OH2	WAT									
ATOM	8440	OH2 OH2	WAT.	H-		27.565	26.972	33.677		40.74	нннн	
MOTA	8440 8441	OH2 OH2 OH2	WAT WAT	H H	774	-30.870	726.7972 90.953	33.677 29.223		48.98	нннн нннн	
	8440	OH2 OH2 OH2	WAT.	H H	774				1.00			
MOTA	8440 8441	OH2 OH2 OH2 OH2	WAT WAT	H H H	774 775	-30.870	90.953	29.223	1.00	48.98	нннн	
MOTA MOTA	8441 8441 8442	OH2 OH2 OH2 OH2 OH2	WAT WAT WAT WAT	H H H H	774 775 776	-30.870 35.056	90.953 40.840 46.414	29.223 56.428 11.886	1.00 1.00 1.00	48.98 45.56	нннн нннн	
ATOM ATOM ATOM	8441 8441 8442 8443 8444	OH2 OH2 OH2 OH2 OH2 OH2	WAT WAT WAT WAT WAT	H H H H	774 775 776 777	-30.870 35.056 16.842 -15.767	90.953 40.840 46.414 85.221	29.223 56.428 11.886 43.869	1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10	ннин ннин нинн ннин	
ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8444	OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT WAT WAT WAT WAT WAT	H H H H H	774 775 776 777 778	-30.870 35.056 16.842 -15.767 17.597	90.953 40.840 46.414 85.221 33.745	29.223 56.428 11.886 43.869 33.893	1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88	ннин ннин ннин ннин ннин	
ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8444 8445 8446	OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT WAT WAT WAT WAT WAT	H H H H H H	774 775 776 777 778 779	-30.870 35.056 16.842 -15.767 17.597 -13.321	90.953 40.840 46.414 85.221 33.745 94.071	29.223 56.428 11.886 43.869 33.893 27.046	1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11	ннин ннин ннин ннин ннин ннин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8445 8446 8447	OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT WAT WAT WAT WAT WAT WAT	H H H H H H	774 775 776 777 778 779 780	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806	90.953 40.840 46.414 85.221 33.745 94.071 49.089	29.223 56.428 11.886 43.869 33.893 27.046 12.247	1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29	ннин ннин ннин ннин ннин нинн нинн	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8448	OH2	WAT WAT WAT WAT WAT WAT WAT WAT	Н Н Н Н Н Н Н	774 775 776 777 778 779 780 781	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244	1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50	ннин ннин ннин ннин ннин ннин ннин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8448 8449	OH2	WAT WAT WAT WAT WAT WAT WAT WAT	H H H H H H H H	774 775 776 777 778 779 780 781 782	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021	1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53	ннин нинн нини нини нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8448 8449 8450	OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT WAT WAT WAT WAT WAT WAT WAT WAT	н н н н н н н н	774 775 776 777 778 779 780 781 782 783	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07	ннин нини нини нини нини нини нини нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8448 8449 8450 8451	OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT	H H H H H H H H H H	774 775 776 777 778 779 780 781 782 783	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96	ннин нини нини нини нини нини нини нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8449 8450 8451 8452	OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT	H H H H H H H H H	774 775 776 777 778 779 780 781 782 783 784 785	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53	ннин нинн нинн нинн нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8445 8446 8447 8446 8447 8450 8451 8452 8453	OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT	H H H H H H H H H H	774 775 776 777 778 779 780 781 782 783 784 785	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96	ннин нинн нинн нинн нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8449 8450 8451 8452	OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2 OH2	WAT	H H H H H H H H H H	774 775 776 777 778 779 780 781 782 783 784 785	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53	ннин нинн нинн нинн нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8445 8446 8447 8446 8447 8450 8451 8452 8453	OH2	WAT	H H H H H H H H H H H H H	774 775 776 777 778 779 780 781 782 783 784 785 786 787	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09	ннин нинн нинн нинн нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8446 8447 8450 8451 8452 8453 8454	OH2	WAT	H H H H H H H H H H H H H H H H H H H	774 775 776 777 778 779 780 781 782 783 784 785 786 787	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20	ннин нинн нинн нинн нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8442 8443 8444 8445 8446 8447 8448 8449 8450 8451 8452 8453 8454 8455	OH2	WAT	H H H H H H H H H H H H H H H H H H H	774 775 776 777 778 779 780 781 782 783 784 785 786 787	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25	ннин нинн нинн нинн нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8446 8447 8448 8449 8450 8451 8452 8453 8454 8455 8456 8457	OH2	WAT	H H H H H H H H H H H H H H H H H H H	774 775 776 777 778 780 781 782 783 784 785 786 786 787 787	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25 30.04 49.42	ннин нини нини нини нини нини нини нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8446 8446 8450 8451 8452 8453 8455 8456 8457 8458	OH2	WAT	H H H H H H H H H H H H H H H H H H H	774 775 776 777 778 780 781 782 783 784 785 786 787 788 789	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25 44.65	ннин нини нини нини нини нини нини нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8445 8446 8447 8450 8451 8452 8453 8455 8457 8456 8457 8458 8459	OH2	WAT	H H H H H H H H H H H H H H	774 775 776 777 778 778 780 781 782 783 784 785 786 787 788 790 791	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25 49.42 44.65 49.17	ннин нини нини нини нини нини нини нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8444 8445 8445 8450 8451 8452 8453 8454 8455 8456 8457 8458 8459 8460	OH2	WAT		774 775 776 777 778 778 780 781 782 783 784 785 786 787 790 791 792 793	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25 30.04 49.42 44.65 49.17 47.77	ннин нини нини нини нини нини нини нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8445 8446 8447 8450 8451 8452 8453 8454 8455 8456 8457 8456 8459 8460 8461	OH2	WAT		774 775 776 777 778 779 780 781 782 783 784 785 786 787 790 791 792 793 794	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 53.53 32.07 48.96 49.53 41.09 43.20 41.25 30.04 49.42 44.65 49.17 47.77 49.58	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8446 8447 8450 8451 8452 8453 8454 8455 8456 8457 8456 8457 8458 8459 8460 8461 8462	OH2	WAT		774 775 776 777 778 779 780 781 782 783 784 785 786 787 790 791 792 793 794 795	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950 -21.411	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.53 32.07 48.96 49.53 41.09 43.20 41.25 30.04 49.42 44.65 49.17 47.77 49.58 35.53	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8446 8447 8448 8450 8451 8455 8455 8456 8457 8458 8456 8457 8456 8457 8456 8457 8458 8456 8456 8456 8456 8456 8456 8456	OH2	WAT		774 775 776 777 778 778 778 781 782 788 788 788 788 799 799 799 799 799 799	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.3504 -3.950 -21.411 -17.148	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 78.337	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.0690 10.053 34.925 16.477 8.305	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.50 32.07 48.96 49.53 41.09 43.20 41.25 30.04 49.42 44.65 49.57 49.58 35.53 58.99	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8446 8447 8448 8450 8451 8452 8453 8454 8455 8456 8457 8458 8459 8461 8462 8463 8464	OH2	WAT		774 775 776 777 778 780 781 782 783 784 785 787 787 790 791 793 794 795 796 797	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950 -21.411 -17.148 -21.649	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 78.337 104.845	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 32.87 48.96 49.53 41.09 43.20 41.25 30.04 49.42 44.65 49.17 47.77 49.58 35.53 58.99 55.20	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8446 8447 8448 8450 8451 8455 8455 8456 8457 8458 8456 8457 8456 8457 8456 8457 8458 8456 8456 8456 8456 8456 8456 8456	OH2	WAT		774 775 776 777 778 780 781 782 783 784 785 787 787 790 791 793 794 795 796 797	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.3504 -3.950 -21.411 -17.148	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 78.337 104.845	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.0690 10.053 34.925 16.477 8.305	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.50 32.07 48.96 49.53 41.09 43.20 41.25 30.04 49.42 44.65 49.57 49.58 35.53 58.99	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8446 8447 8448 8450 8451 8452 8453 8454 8455 8456 8457 8458 8459 8461 8462 8463 8464	OH2	WAT		774 775 776 777 778 780 781 782 783 784 785 787 787 791 792 793 795 796 797	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950 -21.411 -17.148 -21.649	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 78.337 104.845 106.354	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 32.87 48.96 49.53 41.09 43.20 41.25 30.04 49.42 44.65 49.17 47.77 49.58 35.53 58.99 55.20	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8440 8441 8442 8443 8444 8445 8445 8445 8450 8451 8452 8453 8455 8456 8457 8456 8457 8461 8462 8463 8464 8464 8465	OH2	WAT		774 775 7776 7777 7780 781 782 783 784 785 786 787 791 792 793 794 795 797 798	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950 -21.411 -17.148 -21.649 -23.297	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 78.337 104.845 106.354 99.868	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.53 32.07 48.96 49.53 41.09 43.20 43.20 44.65 49.17 47.77 49.58 35.53 35.53 35.53	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8445 8446 8445 8450 8451 8452 8453 8455 8455 8455 8456 8457 8456 8461 8462 8463 8466 8466 8466 8466	OH2	WAT		774 775 776 777 778 780 781 782 783 784 785 786 787 788 791 792 793 794 795 797 798 799	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950 -21.411 -17.148 -21.649 -23.297 -22.945 11.097	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 704.845 106.354 99.868 34.016	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263 21.301 36.496	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25 49.42 44.65 49.17 47.77 49.58 35.53 55.53 55.53 55.20 28.02 26.89 21.96	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8444 8445 8445 8450 8451 8452 8453 8455 8457 8455 8457 8456 8461 8462 8466 8466 8467 8466 8466 8466 8467	OH2	WAT	<u> </u>	774 775 7776 7777 7789 781 782 783 784 785 786 787 788 799 791 799 799 801 802	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950 -21.411 -17.148 -21.649 -23.297 -22.945 11.097 -20.399	90.953 40.840 46.414 85.221 33.745 94.071 49.089 99.692 32.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 78.337 104.845 106.354 99.868 34.016 85.072	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263 21.301 36.496 22.940	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25 49.42 44.65 49.17 47.77 49.58 35.53 58.99 58.99 58.02 26.89 21.96 28.78	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8441 8441 8442 8443 8444 8445 8446 8445 8450 8451 8452 8453 8455 8455 8455 8456 8457 8456 8461 8462 8463 8466 8466 8466 8466	OH2	WAT	<u> </u>	774 775 7776 7777 7789 781 782 783 784 785 786 787 791 792 793 794 795 799 802 803	-30.870 35.056 16.842 -15.767 17.597 -13.321 14.806 -32.575 16.861 -22.264 1.826 15.727 18.885 -2.464 -27.629 -8.056 -33.810 -5.294 -8.330 -8.504 -3.950 -21.411 -17.148 -21.649 -23.297 -22.945 11.097 -20.399	90.953 40.840 46.414 85.221 33.745 94.071 49.089 93.982 98.430 15.243 32.508 24.190 61.285 104.018 91.739 107.007 82.585 86.114 95.395 68.822 97.951 78.337 104.845 106.354 99.868 34.016 85.072 83.817	29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263 21.301 36.496 22.940 20.569	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.98 45.56 40.75 40.10 32.88 35.11 66.29 56.50 53.53 32.07 48.96 49.53 41.09 43.20 41.25 49.42 44.65 49.17 47.77 49.58 35.53 55.53 55.53 55.20 28.02 26.89 21.96	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	

MOTA	8471	OH2	WAT	Η	805	6.105	34.376	34.636	1.00 51.06	нннн
ATOM	8472		WAT		806	9.180	47.730			
								35.425	1.00 50.40	нннн
ATOM	8473				807	8.492	39.682	66.009	1.00 38.44	нннн
MOTA	8474	OH2	WAT	Н	808	-28,780	103.966	48.796	1.00 55.26	нннн
ATOM	8475		WAT			25.710	27.016			
								49.667	1.00 41.37	нннн
MOTA	8476	OH2	WAT	Н	810	15.784	50.537	35.731	1.00 44.33	нннн
ATOM	8477	OH2	WAT	Н	811	-13.405	74.331	53.995	1.00 59.27	
ATOM	8478									нннн
			TAW			-15.200	79.651	-4.392	1.00 56.52	НННН
ATOM	8479	OH2	WAT	Н	813	-21.907	107.723	9.724	1.00 31.14	нннн
ATOM	8480	OH2	WAT	н	814	28.443	33.630	47.562		
ATOM									1.00 35.33	нннн
	8481		WAT			18.660	51.698	35.079	1.00 51.60	нннн
ATOM	8482	OH2	WAT	Н	816	1.312	55.700	21.645	1.00 51.21	нннн
ATOM	8483		WAT							
						-3.255	96.961	15.474	1.00 56.67	нннн
ATOM	8484	OH2	WAT	Н	818	-29.356	92.821	21.844	1.00 40.99	нннн
ATOM	8485	OH2	WAT	н	819	1.564	85.668	18.299	1.00 47.82	
MOTA	8486				820					нннн
						-42.649	95.130	25.046	1.00 57.55	нннн
MOTA	8487	C1	NAG	Ε	600	3.856	25.751	26.645	1.00 94.49	EEEE
ATOM	8488	C2	NAG	F.	600	3.561	24.657	27.658	1.00 97.67	
ATOM	8489	N2								EEEE
			NAG		600	4.785	24.076	28.180	1.00 97.31	EEEE
MOTA	8490	C7	NAG	E	600	5.532	24.756	29.047	1.00 96.73	EEEE
ATOM	8491	07	NAG	E	600	6.712	25.030	28.834	1.00 96.68	
ATOM	8492	C8	NAG							EEEE
					60 <b>0</b>	4.883	25.190	30.355	1.00 96.85	EEEE
MOTA	8493	C3	NAG	E	600	2.703	23.608	26.964	1.00100.99	EEEE
MOTA	8494	03	NAG	F.	600	2.396	22.558	27.872	1.00101.09	
ATOM										EEEE
	8495	C4	NAG		600	1.404	24.256	26.451	1.00103.26	EEEE
MOTA	8496	04	NAG	E	600	0.703	23.308	25.617	1.00107.29	EEEE
ATOM	8497	C5	NAG	F.	600	1.677	25.553	25.637		
									1.00102.29	EEEE
MOTA	8498	05	NAG	E	600	2.632	26.414	26.312	1.00 97.83	EEEE
MOTA	8499	C6	NAG	Ε	600	0.419	26.397	25.447	1.00104.24	EEEE
MOTA	8500	06	NAG	E	600	-0.598				
							25.648	24.746	1.00107.07	EEEE
MOTA	8501	C1	FUC	Ε	601	-1.876	26.245	24.725	1.00108.16	EEEE
ATOM	8502	C2	FUC	Е	601	-2.545	26.253	26.114	1.00108.88	EEEE
ATOM	8503	02	FUC							
						-2.322	25.011	26.767	1.00108.88	EEEE
MOTA	8504	C3	FUC	Ε	601	-2.004	27.395	26.979	1.00109.58	EEEE
MOTA	8505	03	FUC	E	601	-2.711	27.451	28.210	1.00109.90	
ATOM	8506	C4	FUC							EEEE
						-2.141	28.724	26.232	1.00109.35	EEEE
MOTA	8507	04	FUC	Е	601	-3.512	29.028	26.016	1.00108.85	EEEE
MOTA	8508	C5	FUC	F.	601	-1.409	28.637	24.888	1.00109.36	
ATOM	8509	05	FUC							EEEE
					601	-1.917	27.534	24.099	1.00108.88	EEEE
MOTA	8510	C6	FUC	Е	601	-1.579	29.894	24.055	1.00109.41	EEEE
ATOM	8511	C1	NAG	F.	602	-0.510	22.836	26.094	1.00109.67	
ATOM	8512	C2	NAG							EEEE
					602	-1.292	22.170	24.960	1.00110.65	EEEE
ATOM	8513	N2	NAG	Ε	602	-1.576	23.143	23.923	1.00110.47	EEEE
ATOM	8514	C7	NAG	E	602	-1.152	22.937	22.680	1.00110.25	EEEE
ATOM ~	8515	-07-			602					
							22.501	21.792	1.00110.89	EEEE
ATOM	8516	C8	NAG	Е	602	0.298	23.269	22.372	1.00110.23	EEEE
MOTA	8517	C3	NAG	E	602	-2.600	21.583	25.504	1.00111.77	EEEE
ATOM	8518	03	NAG		602					
						-3.247	20.834	24.483	1.00112.54	EEEE
ATOM	8519	C4	NAG	Е	602	-2.331	20.675	26.714	1.00111.88	EEEE
MOTA	8520	04	NAG	F	602	-3.566	20.301	27.310	1.00111.91	EEEE
MOTA	8521	C5	NAG							
						-1.460	21.402	27.748	1.00111.75	EEEE
ATOM	8522	05	NAG	£	602	-0.248	21.881	27.130	1.00110.62	EEEE
MOTA	8523	C6	NAG	E	602	-1.046	20.513	28.903	1.00112.04	EEEE
ATOM	8524	06	NAG			-0.156	21.195			
								29.774	1.00112.59	EEEE
ATOM	8525	C1	NAG			19.802	47.729	52.932	1.00 44.29	EEEE
MOTA	8526	C2	NAG	E	650	20.211	47.062	51.614	1.00 45.81	EEEE
MOTA	8527	N2	NAG			20.943	45.837			
								51863	1.00 44.01	EEEE
MOTA	8528	C7	NAG	Е	650	20.331	44.661	51.779	1.00 43.76	EEEE
ATOM	8529	07	NAG	Е	650	19.115	44.514	51.948	1.00 43.05	EEEE
ATOM	8530	C8	NAG							
						21.206	43.463	51.459	1.00 41.16	EEEE
MOTA	8531	C3	NAG	Ε	650	21.085	48.022	50.820	1.00 48.38	EEEE
MOTA	8532	03	NAG	Ε	650	21.420	47.440	49.571	1.00 49.01	EEEE
ATOM	8533	C4	NAG							
						20.367	49.354	50.602	1.00 49.61	EEEE
ATOM	8534	04	NAG	E	650	21.283	50.299	50.011	1.00 56.78	EEEE
MOTA	8535	C5	NAG	E	650	19.883	49.905	51.941	1.00 49.60	EEEE
ATOM	8536	05	NAG							
						19.079	48.925	52.645	1.00 47.73	EEEE
ATOM	8537	C6	NAG	E	650	19.030	51.144	51.767	1.00 51.12	EEEE
MOTA	8538	06	NAG	Ε	650	17.667	50.805	51.556	1.00 52.73	EEEE
ATOM	8539	C1	NAG							
						21.168	50.533	48.654	1.00 63.66	EEEE
ATOM	8540	C2	NAG	E	651	21.419	52.002	48.358	1.00 66.59	EEEE
MOTA	8541	N2	NAG	Ε	651	20.477	52.817	49.097	1.00 66.55	EEEE
ATOM	8542	C7	NAG							
						20.908	53.658	50.036	1.00 66.73	EEEE
MOTA	8543	07	NAG	E	651	21.956	53.485	50.680	1.00 64.24	EEEE
ATOM	8544	C8	NAG	E	651	20.042	54.883	50.298	1.00 65.12	EEEE
ATOM	8545	C3	NAG							
1	2040	-5	ייחט	ند	UUL	21.267	52.222	46.851	1.00 71.01	EEEE

ATOM	8546	03	NAG E 651	21.522	53.581	46.532	1.00 71.04	EEEE
ATOM	8547	C4	NAG E 651	22.238	51.305	46.085	1.00 74.63	EEEE
ATOM	8548	04	NAG E 651	22.010	51.428	44.660	1.00 83.11	EEEE
ATOM	8549	C5	NAG E 651	22.018	49.848	46.531	1.00 71.58	EEEE
MOTA	8550	05	NAG E 651	22.140	49.738	47.968	1.00 67.17	EEEE
MOTA	8551	C6	NAG E 651	23.015	48.883	45.932	1.00 71.90	EEEE
ATOM	8552	06	NAG E 651	23.088	47.691	46.696	1.00 74.00	EEEE
ATOM	8553	C1	MAN E 652	23.076	51.133	43.808	1.00 90.93	EEEE
ATOM	8554	C2	MAN E 652	22.551	50.874	42.381	1.00 94.12	EEEE
ATOM	8555	02	MAN E 652	21.721	51.954	41.973	1.00 95.19	EEEE
ATOM	8556	C3	MAN E 652	23.709	50.707	41.379	1.00 96.77	EEEE
ATOM	8557	03	MAN E 652	23.180	50.668	40.033	1.00101.24	EEEE EEEE
ATOM	8558	C4	MAN E 652	24.687	51.878 51.653	41.506 40.674	1.00 95.95 1.00 95.94	EEEE .
ATOM ATOM	8559 8560	O4 C5	MAN E 652 MAN E 652	25.815 25.135	52.029	40.874	1.00 93.94	EEEE
ATOM	8561	05	MAN E 652	23.133	52.247	43.815	1.00 93.08	EEEE
ATOM	8562	C6	MAN E 652	26.076	53.199	43.166	1.00 94.73	EEEE
ATOM	8563	06	MAN E 652	27.414	52.837	42.851	1.00 94.94	EEEE
ATOM	8564	C1	MAN E 653	23.275	49.475	39.286	1.00104.77	EEEE
ATOM	8565	C2	MAN E 653	22.719	48.253	40.046	1.00106.30	EEEE
ATOM	8566	02	MAN E 653	22.358	47.233	39.123	1.00105.68	EEEE
ATOM	8567	C3	MAN E 653	23.748	47.705	41.040	1.00107.40	EEEE
ATOM	8568	03	MAN E 653	23.266	46.494	41.608	1.00107.05	EEEE
ATOM	8569	C4	MAN E 653	25.089	47.457	40.338	1.00107.79	EEEE
MOTA	8570	04	MAN E 653	26.058	47.031	41.287	1.00109.07	EEEE
ATOM	8571	C5	MAN E 653	25.577	48.739	39.648	1.00107.06	EEEE
ATOM	8572	05	MAN E 653	24.572	49.227	38.727	1.00105.89	EEEE
ATOM	8573	C6	MAN E 653	26.844	48.494	38.836	1.00106.71	EEEE
ATOM	8574	06	MAN E 653	27.817	49.506	39.059	1.00105.37	EEEE
ATOM	8575	C1	NAG F 600		106.864	19.712 20.295	1.00 83.03. 1.00 86.98	FFFF FFFF
ATOM ATOM	8576 8577	C2 N2	NAG F 600 NAG F 600		108.204 108.530	19.890	1.00 86.84	FFFF
ATOM	8578	C7	NAG F 600		108.652	20.815	1.00 86.33	FFFF
ATOM	8579	07	NAG F 600		107.694	21.249	1.00 84.27	FFFF
ATOM	8580	C8	NAG.F 600		110.050	21.348	1.00 86.65	FFFF
ATOM '	8581	C3	NAG F 600		109.280	19.838	1.00 90.68	FFFF
ATOM	8582	03	NAG F 600	-8.826	110.516	20.443	1.00 89.20	FFFF
ATOM	8583	C4	NAG F 600	-7.061	108.888	20.250	1.00 94.60	FFFF
ATOM	8584	04	NAG F 600		109.815	19.684	1.00102.59	FFFF
ATOM	8585	C5	NAG F 600		107.458	19.802	1.00 92.78	FFFF
ATOM	8586	05	NAG F 600		106.524	20.215	1.00 87.50	FFFF
ATOM	8587	C6	NAG F 600		106.979	20.419	1.00 93.97	FFFF
ATOM	8588	06	NAG F 600		106.862	21.853	1.00 95.37	FFFF
ATOM	8589	C1	FUC F 601		106.767 106.855	22.511 -24.7030	1.00 95.80	FFFF-
ATOM	8590	C2 - 02	FUC F 601		100.833	24.346	1.00 95.96	FFFF
ATOM ATOM	8591 8592	C3	FUC F 601		107.590	24.554	1.00 95.29	FFFF
ATOM	8593	03	FUC F 601		105.635	25.972	1.00 95.18	FFFF
ATOM	8594	C4	FUC F 601		104.331	24.100	1.00 94.60	FFFF
ATOM	8595	04	FUC F 601		104.250	24.755	1.00 94.89	FFFF
ATOM	8596	C5	FUC F 601		104.346	22.582	1.00 94.87	FEFF
ATOM	8597	05	FUC F 601	-3.592	105.573	22.178	1.00 95.49	FFFF
ATOM	8598	C6	FUC F 601	-3.368	103.201	22.104	1.00 94.22	FFFF
ATOM	8599	C1	NAG F 602		110.318	20.577	1.00109.41	FFFF
MOTA	8600	C2	NAG F 602		110.955	19.821	1.00112.17	FFFF
ATOM	8601	N2	NAG F 602		109.935	19.073	1.00113.47	FFFF
ATOM	8602	C7	NAG F 602		110.201	17.865	1.00114.42	FFFF
ATOM	8603	07	NAG F 602		109.951	16.825	1.00114.69	FFFF
ATOM	8604	C8	NAG F 602		110.830	17.793	1.00114.38	FFFF FFFF
ATOM	8605	C3	NAG F 602		111.623	20.807 20.084	1.00114.27	FFFF
ATOM	8606 8607	O3 C4	NAG F 602 NAG F 602		112.402	21.821	1.00114.19	FFFF
ATOM ATOM	8608	04	NAG F 602		112.524 112.906	22.876	1.00113.01	FFFF
ATOM	8609	C5	NAG F 602		111.792	22.436	1.00113.20	FFFF
ATOM	8610	05	NAG F 602		111.752	21.395	1.00112.02	FFFF
ATOM	8611	C6	NAG F 602		112.681	23.328	1.00113.69	FFFF
ATOM	8612	06	NAG F 602		112.114	24.622	1.00112.81	FFFF
ATOM	8613	C1	MAN F 603		113.954	22.617	1.00121.42	FFFF
ATOM	8614	C2	MAN F 603		115.283	22.584	1.00122.42	FFFF
ATOM	8615	02	MAN F 603		115.456	23.802	1.00122.11	FFFF
ATOM	8616	C3	MAN F 603		116.441	22.385	1.00122.96	FFFF
ATOM	8617	03	MAN F 603		117.677	22.453	1.00122.92	FFFF
ATOM	8618	C4	MAN F 603		116.394	23.462	1.00123.19	FFFF
ATOM	8619	04	MAN F 603		117.400	23.209	1.00123.24	FFFF
ATOM	8620	C5	MAN F 603	-0.001	115.011	23.473	1.00122.91	FFFF

7.000				_						
ATOM	8621	05			603	-0.993	113.976	23.662	1.00122.20	FFFF
ATOM	8622	C6	MAN	F	603	1.014	114.868	24.597	1.00122.79	FFFF
ATOM	8623	06	MAN	F	603		113.663	24.477	1.00122.33	
ATOM	8624	C1			630					FFFF
						-6.213		-10.242	1.00 98.75	FFFF
MOTA	8625	C2			630	-6.835	77.432	-10.544	1.00100.36	FFFF
ATOM	8626	N2	NAG	F	630	-7.896	77.149	-9.594	1.00100.86	FFFF
ATOM	8627	C7	NAG	F	630	-9.060		-10.017	1.00101.08	
ATOM	8628	07			630					FFFF
						-9.215		-10.347	1.00101.12	FFFF
ATOM	8629	C8			630	-10.231	77.636	-10.087	1.00100.63	FFFF
ATOM	8630	C3	NAG	F	630	-5.749	76.355	-10.448	1.00101.40	FFFF
ATOM	8631	03	NAG	F	630	-6.284		-10.864	1.00101.56	
ATOM	8632	C4	NAG							FFFF
						-4.528		-11.317	1.00101.71	FFFF
ATOM	8633	04			630	-3.463	75.813	-11.040	1.00102.98	FFFF
ATOM	8634	C5	NAG	F	630	-4.056	78.156	-11.044	1.00101.26	FFFF
MOTA	8635	05	NAG	F	630	-5.162	79 077	-11.175	1.00100.21	FFFF
ATOM	8636	C6			630	-2.974				
ATOM	8637							-12.009	1.00101.02	FFFF
		06			630	-1.864		-11.319	1.00100.24	FFFF
ATOM	8638	C1	NAG	F	650	-39.620	85.665	29.716	1.00 58.68	FFFF
ATOM	8639	C2	NAG	F	650	-38.850	86.149	28.498	1.00 59.35	FFFF
ATOM	8640	N2			650	-39.327	87.460			
ATOM								28.108	1.00 58.12	FFFF
	8641	C7			650	-38.476	88.416	27.742	1.00 58.77	FFFF
ATOM	8642	07	NAG	F	650	-38.665	89.606	28.005	1.00 56.98	FFFF
MOTA	8643	C8	NAG	F	650	-37.246	88.005	26.933	1.00 58.71	FFFF
ATOM	8644	СЗ			650	-39.047	85.147			
ATOM	8645	03						27.344	1.00 61.66	FFFF
					650	-38.268	85.535	26.217	1.00 62.32	FFFF
MOTA	8646	C4			650	-38.668	83.717	27.774	1.00 61.84	FFFF
ATOM	8647	04	NAG	F	650	-39.062	82.776	26.745	1.00 63.47	FFFF
ATOM	8648	C5	NAG	F	650	-39.386	83.365	29.089	1.00 62.78	
ATOM	8649	05			650					FFFF
ATOM						-39.135	84.375	30.100	1.00 62.07	FFFF
	8650	C6			650	-38.935	82.039	29.665	1.00 64.17	FFFF
ATOM	8651	06	NAG	F	650	-37.523	82.001	29.827	1.00 66.42	FFFF
ATOM	8652	C1	NAG	F	651	-38.076	82.313	25.885	1.00 65.06	FFFF
ATOM	8653	C2			651	-38.397				
ATOM	8654						80.889	25.423	1.00 65.02	FFFF
		N2			651	-38.467	80.003	26.565	1.00 64.20	FFFF
MOTA	8655	C7			651	-39.622	79.438	26.889	1.00 63.41	FFFF
ATOM	8656	07	NAG	F	651	-40.715	79.935	26.607	1.00 62.73	FFFF
MOTA	8657	C8	NAG	F	651	-39.551	78.121	27.642	1.00 63.39	FFFF
ATOM	8658	C3	NAG			-37.306	80.415			
MOTA	8659	03						24.463	1.00 65.15	FFFF
					651	-37.624	79.130	23.962	1.00 64.27	FFFF
ATOM	8660	C4			651	-37.171	81.387	23.301	1.00 67.21	FFFF
ATOM	8661	04	NAG	F	651	-36.067	81.000	22.492	1.00 69.05	FFFF
MOTA	8662	C5	NAG	F	651	-36.960	82.812	23.831	1.00 68.18	
ATOM	8663	05	NAG			-38.026				FFFF
	8664						83.175	24.743	1.00 67.14	FFFF
ATOM		C6	NAG			-36.944	83.846	22.725	1.00 69.10	FFFF
MOTA	8665	-06	NAG	F,	651	-35.719	- 837.805	22:007	71.700 71.95	FFFF-
MOTA	8666	PT+2	PT2	G	702		-33.586	36.278	0.50 58.16	GGGG
MOTA	8667	PT+2			706	-20.700	98.681	23.092	0.60 55.80	
ATOM		PT+2								GGGG
						-14.020	65.178	36.237	0.50 57.59	GGGG
MOTA		PT+2		_		9.619	32.209	36.875	0.60 74.81	GGGG
ATOM	8670	PT+2	PT2	G	814	-19.380	82.486	-2.990	0.50121.53	GGGG
ATOM	8671	PT+2	PT2	G	816	27.506	50.450	16.793	0.50143.70	GGGG
ATOM		PT+2				-15.621				
ATOM							58.978	51.789	0.20105.99	GGGG
	8673	CD+2	CDZ	G	121	-0.083	34.244	70.030	1.00 46.64	GGGG
MOTA		CD+2				2.151	37.249	68.882	1.00 71.11	GGGG
ATOM	8675	CD+2	CD2	G	723	-47.338	84.987	18.385	1.00 94.96	GGGG
ATOM	8676	CD+2	CD2	G	724	-36.776	97.081	52.307		
ATOM	8677	CD+2	CDS	6	725				1.00 76.81	GGGG
	0077	CDT2	CD:	9	123	-38.037		58.689	1.00 94.24	GGGG
MOTA		CD+2				-39.065	76.599	32.090	1.00100.85	GGGG
ATOM		CD+2				-0.835	94.811	19.286	1.00 77.50	GGGG
ATOM	8680	CD+2	CD?	G	728	20.466	26.964	50.663	1.00103.98	
ATOM	8691	CD+2	CDG	~	720					GGGG
						-26.440	93.826	25.631	1.00102.89	GGGG
ATOM		CD+2				0.891	36.397	73.624	1.00 54.05	GGGG
ATOM		CD+2				-7.554	65.551	34.652	1.00122.70	GGGG
ATOM	8684	CL-1	CL1	G	736	1.594	32.778	70.827	1.00 47.55	GGGG
ATOM	8685	CL-1	CI-1	G	737	17.346	55.996			
ATOM	2606	CL-1	CT 1	2	720			54.666	1.00100.60	GGGG
						0.203	95.592	17.550	1.00 68.81	GGGG
ATOM	8687	CL-1	CL1	G	739	17.490	56.437	51.762	1.00 83.89	GGGG
END										

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### APPENDIX III

ATOM	1	C1 Pl	900	17.247	34.337	33.040	0.00 50.00	PATB	0
ATOM	2	C2 P1	900	17.586	33.278	32.606	0.00 50.00	PATB	1
ATOM	3	C3 P1	900	14.612	33.590	32.345	0.00 46.36	PATB	2
ATOM	4	C4 P1	900	18.573	34.785	33.366	0.00 45.45	PATB	3
ATOM	5	C5 P1							
			900	32.438	29.934	19.147	0.00 45.45	PATB	4
ATOM	6	C6 P1	900	18.157	33.760	33.518	0.00 44.55	PATB	5
ATOM	7	C7 P1	900	17.122	32.075	31.575	0.00 44.55	PATB	6
ATOM	8	C8 P1	900	16.252	31.139	32.688	0.00 43.64	PATB	7
ATOM	9	C9 P1	900	16.249	34.011	32.951	0.00 41.82	PATB	8
ATOM	10	C10 P1	900	-10.094	34.241	58.839	0.00 40.91	PATB	9
ATOM	11	C11 P1	900	16.468	32.097	33.873	0.00 40.91	PATB	10
ATOM	12	C12 P1							
			900	15.489	32.195	32.392	0.00 40.91	PATB	11
ATOM	13	C13 P1	900	23.753	33.297	10.480	0.00 39.09	PATB	12
ATOM	14	C14 P1	900	33.309	30.398	18.052	0.00 39.09	PATB	13
ATOM	15	C15 P1	900	-2.998	21.831	64.821	0.00 37.27	PATB	14
ATOM	16	C16 P1	900	33.279	29.493	19.573	0.00 37.27	PATB	15
ATOM	17	C17 P1	900	14.731	31.540	33.645	0.00 36.36	PATB	16
MOTA	18	C18 P1	900	15,225	33.551	33.250	0.00 36.36	PATB	17
ATOM	19	C19 P1	900	-1.642	53.330	50.131	0.00 34.55	PATB	18
ATOM	20	C20 P1	900	13.430	32.330	33.472	0.00 34.55	PATB	19
ATOM	21								
		C21 P1	900	24.488	32.011	11.018	0.00 33.64	PATB	20
ATOM	22	C22 P1	900	-3.044	55.528	51.405	0.57 33.64	PATB	21
ATOM	23	C23 P1	900	22.926	33.277	9.745	0.00 32.73	PATB	22
ATOM	24	C24 P1	900	-2.583	52.917	50.555	0.00 32.73	PATB	23
MOTA	25	C25 P1	900	15.585	30.959	33.518	0.00 32.73	PATB	24
ATOM	26	C26 P1	900	9.955	54.402	54.165	0.00 32.73	PATB	25
ATOM	27	C27 P1	900	7.601	50.461	7.677	0.00 32.73	PATB	26
ATOM	28	C28 P1	900	6.373	33.507	46.876	0.00 31.82	PATE	27
ATOM	29	C29 P1	900	34.629			0.00 31.82		
ATOM					30.215	18.700		PATB	28
	30	C30 P1	900	1.456	32.977	69.898	0.00 31.82	PATB	29
ATOM	31	C31 P1	900	-1.332	50.347	15.988	0.00 30.91	PATB	30
MOTA	32	C32 P1	900	-10.702	33.287	58.969	0.00 30.91	PATB	31
MOTA	33	C33 P1	900	1.321	48.300	44.892	0.00 30.91	PATB	32
MOTA	34	C34 P1	900	18.824	26.334	17.574	0.00 30.91	PATB	33
ATOM	35	C35 P1	900	-2.057	21.217	62.848	0.00 30.91	PATB	34
ATOM	36	C36 P1	900	28.504	28.755	27.969	0.00 30.91	PATB	35
ATOM	37	C37 P1	900	-1.408	54.375	50.566	0.00 30.91	PATB	36
ATOM									
	38	C38 P1	900	0.435	49.041	17.446	0.00 30.91	PATB	37
ATOM	39	C39 P1	900	-3.133	55.380	50.016	0.50 30.91	PATB	38
MOTA	40	C40 P1	900.	-0.728	21.929	61.350	0.00 30.91	PATB	39
ATOM	41	C41 P1	900	-2.775	54.272	50.848	0.50 30.00	PATB	40
ATOM	42	C42 P1	900	-7.106	59.427	30.313	0.00 30.00	PATB	41
ATOM	43	C43 P1	900	-1.784	53.383	48.515	0.00 30.00	PATB	42
ATOM	44	C44 P1	900	14.445	32.282	34.575	0.00 30.00	PATB	43
ATOM	45	C45 P1	900	-1.715	54.387	48.585	0.00 29.09	PATB	44
ATOM	46	C46 P1	900	-0.796			0.57 29.09		
					49.446	16.917		PATB	45
ATOM	. 47	C47 P1	900	-2.878	54.011	49.733	0.50 28.18	PATB	46
MOTA	48	C48 P1	900	4.700	33.242	29.042	0.00 28.18	PATB	47
ATOM	49	C49 P1	900	-1.507	21.465	61.968	0.00 28.18	PATB	48
ATOM	50	C50 P1	900	-2.632	5 <b>3.9</b> 30	48.357	0.00 28.18	PATB	49
ATOM	51	C51 P1	900	27.666	27.832	28.253	0.00 28.18	PATB	50
ATOM	52	C52 P1	900	-4.688	35.358	42.674	0.00 28.18	PATB	51
ATOM	53	C53 P1	900	16.884	53.968	53.834	0.00 27.27	PATB	
ATOM	54	C54 P1	900	-2.145	50.305	17.181	0.00 27.27	PATB	53
ATOM	55	C55 P1	900						54
				-7.663	60.175	30.765	0.00 27.27	PATB	
ATOM	56	C56 P1	900	-2.299	55.380	49.381	0.50 27.27	PATB	55
ATOM	57	C57 P1	900	28.828	29.735	28.544	0.00 27.27	PATB	56
ATOM	58	C58 P1	900	-3.421	53.458	51.786	0.00 26.36	PATB	57
MOTA	59	C59 P1	900	-4.065	55.649	51.025	0.57 26.36	PATB	58
MOTA	60	C60 P1	900	-11.182	34.185	58.090	0.00 26.36	PATB	59
ATOM	61	C61 P1	900	14.412	56.379	17.377	0.00 26.36	PATB	60
MOTA	62	C62 P1	900	16.522	27.767	16.897	0.00 26.36	PATB	61
ATOM	63	C63 P1	900	-3.033	20.716	62.720	0.00 26.36	PATB	62
ATOM	64	C64 P1	900					PATB	63
				-6.186	59.832	31.086	0.00 26.36		
ATOM	65	C65 P1	900	34.275	29.502	17.720	0.00 26.36	PATB	64
ATOM	66	C66 P1	900	4.605	48.993	44.194	0.50 25.45	PATB	65
ATOM	67	C67 P1	900	13.342	31.893	60.930	0.00 25.45	PATB	66

ATOM	68	C68 P	1 900	-4.138	54.544	50.683	0.57 25.45	PATB 6	7
ATOM	69	C69 P	1 900	-3.099	35.112	42.282	0.00 25.45		
ATOM	70	C70 P							
ATOM	71				20.301	63.745	0.00 25.45	PATB 6	9
		C71 P			57.350	50.276	0.00 25.45	PATB 70	0
ATOM	72	C72 P	1 900	-1.704	48.687	18.845	0.00 25.45	PATB 7:	1
ATOM	73	C73 P	1 900	-3.729	21.444	63.692	0.50 25.45	PATB 7	
ATOM	74	C74 P							
ATOM	75				26.136	18.607	0.00 25.45	PATB 73	3
		C75 P		20.034	25.596	17.772	0.00 25.45	PATB 7	4
ATOM	76	C76 P	1 900	4.929	32.281	29.839	0.00 24.55	PATB 7	5
ATOM	77	C77 P	1 900	-3.973	54.714	52.063	0.50 24.55		
ATOM	78	C78 P						PATB 76	
				-4.494	55.479	49.703	0.00 24.55	PATB 7	7
ATOM	79	C79 P			40.233	7.453	0.00 24.55	PATB 78	8
ATOM	80	C80 P	1 900	7.252	31.840	48.687	0.00 23.64	PATB 79	۵
ATOM	81	C81 P	1 900	17.998	53.653	53.978	0.00 23.64		
ATOM	82	C82 P						PATB 80	
ATOM				8.829	48.216	9.226	0.00 23.64	PATB 81	l
	83	C83 P		-3.433	54.847	48.757	0.00 23.64	PATB 82	2
ATOM	84	C84 P	1 900	4.141	31.737	29.171	0.00 23.64	PATB 83	3
ATOM	85	C85 P	1 900	7.717	33.701	47.514	0.00 23.64	PATB 84	
ATOM	86	CB6 P		23.852	32.243				
ATOM	87	C87 P				9.563	0.50 23.64	PATB 85	)
				16.105	27.364	18.186	0.00 23.64	PATB 86	5
ATOM	88	C88 P.	1 900	17.050	53.979	52.310	0.00 23.64	PATB 87	7
ATOM	89	C89 P	1 900	8.186	32.440	49.215	0.00 22.73	PATB 88	
ATOM	90	C90 P.	1 900	16.892	34.699				
ATOM	91	C91 P				60.058	0.00 22.73	PATB 89	
				2.293	50.463	45.378	0.00 22.73	PATB 90	)
ATOM	92	C92 P		-2.944	54.775	53.010	0.00 22.73	PATB 91	L
ATOM	93	C93 P.	1 900	15. <b>5</b> 75	32.992	59.687	0.00 22.73	PATB 92	
ATOM	94	C94 P.	900	-4.213	56.997	52.872	0.00 22.73		
MOTA	95	C95 P.						PATB 93	
				23.205	54.707	27.214	0.00 22.73	PATB 94	Ī
ATOM	96	C96 P.		18.575	25.016	17.973	0.50 22.73	PATB 95	5
ATOM	97	C97 P.	1 900	27.243	27.969	29.443	0.00 22.73	PATB 96	•
ATOM	98	C98 P	900	5.156	47.732	44.448	0.00 22.73	PATB 97	
ATOM	99	C99 P		13.810	31.950				
ATOM	100					59.888	0.00 21.82	PATB 98	5
				-6.509	48.140	25.924	0.00 21.82	PATB 99	)
ATOM	101	C2 P:	2 900	29.686	27.695	27.903	0.00 21.82	PATB 100	)
ATOM	102	C3 P:	2 900	23.607	50.347	53.121	0.00 21.82	PATB 101	
ATOM	103	C4 P:	2 900	-3.642	56.678	49.898	0.00 21.82		
ATOM	104	C5 P						PATB 102	
				-3.287	19.784	65.001	0.00 21.82	PATB 103	3
ATOM	105	C6 P:		-4.895	60.363	43.735	0.00 21.82	PATB 104	ı
ATOM	106	C7 P	2 900	-3.655	53.730	53.006	0.00 21.82	PATB 105	;
ATOM	107	C8 P:	900	17.127	54.477	54.778	0.00 21.82	PATB 106	
ATOM	108	C9 P:	2 900	3.274	48.637	44.447			
ATOM	109	C10 P					0.00 21.82	PATB 107	
				14.168	31.778	58.927	0.00 21.82	PATB 108	\$
ATOM	110	C11 P		0.963	48.500	20.822	0.00 21.82	PATB 109	3
ATOM	111	C12 P2	900	19.784	25.878	16.479	0.00 21.82	PATB 110	
ATOM	112	C13 P2	900	-8.775	37.210	61.481	0.00 20.91		
ATOM	113	C14 P2		-5.441				PATB 111	
ATOM			-		34.655	42.315	0.00 20.91	PATB 112	
	114	C15 P2		1.342	45.346	23.267	0.00 20.91	PATB 113	3
ATOM	115	C16 P2	900	-6.609	61.088	30.635	0.50 20.91	PATB 114	ı
MOTA	116	C17 P2	900	3.800	50.762	45.040	0.00 20.91	PATB 115	
ATOM	117	C18 P2		1.822	48.632	44.076	0.00 20.91		
MOTA	118	C19 P2						PATB 116	
				1.903	48.645	21.700	0.00 20.91	PATB 117	
ATOM	119	C20 P2		-3.163	58.074	53.461	0.00 20.91	PATB 118	J
ATOM	120	C21 P2	900	10.166	55.351	53.298	0.00 20.91	PATE 119	j
ATOM	121	C22 P2	900	-2.079	48.948	17.521	0.50 20.91	PATB 120	
ATOM	122	C23 P2		28.274	29.378				
ATOM						29.639	0.00 20.91	PATB 121	
	123	C24 P2		-3.686	36.264	41.799	0.00 20.91	PATB 122	;
MOTA	124	C25 P2	900	-7.798	48.395	24.564	0.00 20.91	PATB 123	i
ATOM	125	C26 P2	900	19.227	47.896	63.105	0.00 20.91	PATB 124	
ATOM	126	C27 P2		21.054	48.027	35.807	0.00 20.00	PATB 125	
ATOM	127	C28 P2							
				-7.382	27.618	52.497	0.00 20.00	PATB 126	
ATOM	128	C29 P2		3.441	33.713	28.662	0.00 20.00	PATB 127	
ATOM	129	C30 P2		16.967	26.526	18.775	0.00 20.00	PATE 128	į
ATOM	130	C31 P2	900	16.574	54.702	53.042	0.00 20.00	PATB 129	
ATOM	131	C32 P2		2.403	33.180	70.909			
ATOM	132	C33 P2					0.50 20.00	PATB 130	
				-3.918	58.693	42.543	0.00 20.00	PATB 131	
ATOM	133	C34 P2		-2.710	49.605	18.585	0.00 20.00	PATB 132	
ATOM	134	C35 P2	900	-2.045	49.193	16.336	0.50 19.09	PATB 133	
ATOM	135	C36 P2	900	2.133	31.320	28.492	0.00 19.09	PATB 134	
ATOM	136	C37 P2	-						
ATOM	137	C38 P2		. 2.006	45.719	25.314	0.00 19.09	PATB 135	
				-1.814	56.646	49.033	0.00 19.09	PATB 136	
ATOM	138	C39 P2	900	3.685	48.460	26.732	0.00 19.09	PATB 137	

ATOM	139	C40	P2	900	19.303	24.292	18.925	0.00 19.09	PATB 138
ATOM	140	C41	P2	900	-5.731	26.335	53.685	0.00 19.09	PATB 139
ATOM	141	C42	P2	900	20.332	49.688	35.178	0.00 19.09	PATB 140
ATOM	142	C43	P2	900	5.940	48.879	44.600	0.00 19.09	PATB 141
ATOM	143	C44	P2	900	6.810	32.304	47.442	0.50 19.09	PATB 142
ATOM	144	C45	P2	900	0.572	48.417	18.600	0.00 19.09	PATB 143
MOTA	145	C46	P2	900	-5.647	61.204	43.844	0.00 19.09	PATB 144
ATOM	146	C47	P2	900	-2.319	22.665	60.897	0.57 19.09	PATB 145
ATOM	147	C48	P2	900	1.176	48.945	22.395	0.00 19.09	PATB 146
ATOM	148	C49		900	28.661	28.106	29.200	0.50 19.09	PATB 147
ATOM	149	C50	P2	900	7.450	48.850	8.644	0.00 19.09	PATB 148
ATOM	150	C51	P2	900	23.898	32.840	8.298	0.00 19.09	PATB 149
ATOM	151	C52	P2	900	25.627	32.525	8.638	0.00 19.09	PATB 150
ATOM	152	C53	P2	900	-4.149	59.614	43.201	0.00 18.18	PATB 151
ATOM	153	C54	P2	900	-4.273	20.223	64.109	0.57 18.18	PATB 152
ATOM	154	C55	P2	900	5.426	46.495	27.453	0.00 18.18	PATB 153
ATOM	155	C56	P2	900	-2.339	34.266	41.514	0.00 18.18	PATB 154
ATOM	156	C57	P2	900	-3.606	55.906	53.505	0.50 18.18	PATB 155
ATOM	157	C58	P2	900	-3.229	57.100	54.130	0.00 18.18	PATB 156
ATOM	158	C59	P2	900	-4.653	53.449	51.784	0.00 18.18	PATB 157
ATOM	159	C60	P2	900	13.626	31.556	62.318	0.00 18.18	PATB 158
ATOM	160	C61	P2	900	-10.189	47.601	46.487	0.50 18.18	PATB 159
ATOM	161	C62	P2	900	27.621	39.645	5.890	0.00 18.18	PATB 160
ATOM	162	C63	P2	900	8.532	49.873	6.542	0.00 18.18	PATB 161
ATOM	163	C64	P2	900	7.612	49.119	7.280	0.50 18.18	PATB 162
ATOM	164	C65		900	-12.434	33.931	58.743	0.00 18.18	PATB 163
MOTA	165	C66	P2	900	-4.730	55.708	52.695	0.57 18.18	PATB 164
ATOM	166	C67		900	3.647	32.843	29.873	0.50 18.18	PATB 165
ATOM	167	C68		900	-0.672	48.355	17.960	0.50 18.18	PATB 166
ATOM	168	C69		900	-8.895	37.317	62.901	0.00 18.18	PATB 167
ATOM	169	C70		900	16.850	26.495	17.380	0.50 18.18	PATB 168
ATOM	170	C71		900	2.509	34.363	28.727	0.00 18.18	PATB 169
ATOM	171	C72		900	25.566	31.148	9.717	0.00 18.18	PATB 170
ATOM	172	C73		900	9.849	55.646	52.364	0.00 18.18	PATB 171
ATOM	173	C74		900	-9.118	47.794	45.606	0.00 18.18	PATB 172
ATOM	174	C75		900	1.178	48.915	23.794	0.50 18.18	PATB 173
MOTA	175	C76		900	-11.301	48.637	43.154	0.00 17.27	PATB 174
ATOM ATOM	176 177	C77 C78	P2	900 900	-1.922 -5.260	35.564 60.238	40.847 30.294	0.00 17.27 0.00 17.27	PATB 175 PATB 176
ATOM	178	C79		900	-6.542	46.741	25.881	0.50 17.27	PATE 177
ATOM	179	C80		900	-2.859	21.813	61.868	0.50 17.27	PATB 178
ATOM	180	C81		900	9.089	56.567	54.425	0.00 17.27	PATB 179
ATOM	181	C82		900	-1.733	47.465	18.162	0.57 17.27	PATB 180
ATOM	182	C83		900	0.986	44.337	26.479	0.00 17.27	PATB 181
ATOM	183	C84		900	18.732	47.492	36.947	0.71 17.27	PATB 182
ATOM	184	C85		900	18.721	54.189	53.464	0.00 17.27	PATB 183
ATOM	185	C86		900	-3.271	48.308	18.505	0.00 17.27	PATB 184
ATOM	186	C87		900	15.087	27.293	17.806	0.00 17.27	PATB 185
ATOM	187	C88		900	2.107		70.350	0.00 17.27	PATB 186
ATOM	188	C89		900	-7.665	47.432	25.572	0.50 17.27	PATB 187
ATOM	189	C90	P2	900	-4.206	35.026	41.402	0.50 17.27	PATB 188
ATOM	190	C91	P2	900	23.042	31.399	8.795	0.57 17.27	PATB 189
ATOM	191	C92	P2	900	-6.058	47.002	27.168	0.00 17.27	PATB 190
ATOM	192	C93	P2	900	17.777	34.906	59.220	0.00 17.27	PATB 191
ATOM	193	C94	P2	900	1.528	46.369	21.859	0.00 17.27	PATB 192
ATOM	194	C95	P2	900	0.903	46.569	23.787	0.64 17.27	PATB 193
ATOM	195	C96	P2	900	-11.761	48.965	40.994	0.00 17.27	PATB 194
ATOM	196	C97		900	0.295	47.788	19.819	0.50 17.27	PATB 195
MOTA	197	C98		900	8.777	32.830	47.792	0.50 16.36	PATB 196
MOTA	198	C99		900	18.260	45.613	36.164	0.00 16.36	PATB 197
MOTA	199		Р3	900	3.349	52,213	45.361	0.00 16.36	PATB 198
MOTA	200		Р3	900	-11.953	35.046	58.269	0.00 16.36	PATB 199
MOTA	201		P3	900	-4.134	21.499	62.353	0.57 16.36	PATE 200
ATOM	202		P3	900	2.969	32.402	28.793	0.50 16.36	PATB 201
ATOM	203		P3	900	-4.745	58.720	54.213	0.00 16.36	PATB 202
ATOM	204		P3	900	13.037	59.816	10.157	0.00 16.36	PATE 203
ATOM	205		P3	900	1.664	47.680	20.091	0.00 16.36	PATB 204
ATOM	206		P3	900	12.496	60.839	10.405	0.00 16.36	PATB 205
ATOM	207		P3	900	8.979	56.224	53.152	0.00 16.36	PATB 206 PATB 207
ATOM	208	C10		900	-5.087	60.480	31.662	0.64 15.45	PATE 207
MOTA	209	C11	<b>F3</b>	900	28.159	26.661	28.264	0.00 15.45	TAID 400

ATOM	210	C12 P3	900	0.245	48.434	24.721	0.00 15.45	PATB 209
ATOM	211	C13 P3	900	24.834	32.954	7.745		
ATOM	212	C14 P3					0.00 15.45	PATB 210
ATOM				28.805	23.769	23.978	0.00 15.45	PATB 211
	213	C15 P3		-9.248	48.284	25.325	0.00 15.45	PATB 212
ATOM	214	C16 P3	900	-9.321	62.909	32.363	0.00 15.45	PATB 213
MOTA	215	C17 P3	900	-8.874	47.474	46.951	0.00 15.45	PATB 214
ATOM	216	C18 P3	900	-4.610	57.327	54.174	0.50 15.45	PATB 215
ATOM	217	C19 P3	900	17.823	25.589	16.941		
ATOM	218	C20 P3					0.57 15.45	PATB 216
				-3.404	33.879	41.356	0.00 15.45	PATE 217
ATOM	219	C21 P3	900	6.219	31.460	46.494	0.00 15.45	PATB 218
MOTA	220	C22 P3	900	19.486	49.529	36.283	0.50 15.45	PATB 219
MOTA	221	C23 P3	900	14.875	31.746	58.105	0.00 15.45	PATB 220
ATOM	222	C24 P3	900	29.819	28.775	28.785	0.57 15.45	PATB 221
ATOM	223	C25 P3	900	19.192	48.773	37.424	0.57 15.45	PATB 221
ATOM	224	C26 P3	900	22.184	54.812	28.117		
ATOM	225	C27 P3	900					PATB 223
ATOM				-8.257	28.082	52.891	0.00 15.45	PATB 224
	226	C28 P3	900	28.948	37.500	8.250	0.00 15.45	PATB 225
ATOM	227	C29 P3	900	-1.786	21.405	60.598	0.50 15.45	PATB 226
ATOM	228	C30 P3	900	27.976	23.428	23.475	0.00 15.45	PATB 227
<b>ATOM</b>	229	C31 P3	900	19.255	50.135	35.042	0.00 15.45	PATB 228
ATOM	230	C32 P3	900	23.035	51.165	52.796	0.00 15.45	PATB 229
ATOM	231	C33 P3	900	20.067	47.884	36.790	0.64 15.45	
ATOM	232	C34 P3	900					PATB 230
ATOM	233			12.552	44.396	45.666	0.00 15.45	PATB 231
		C35 P3	900	3.940	47.166	26.358	0.00 15.45	PATB 232
ATOM	234	C36 P3	900	13.407	57.664	17.107	0.71 14.55	PATB 233
ATOM	235	C37 P3	900	1.511	47.594	22.537	0.50 14.55	PATB 234
<b>ATOM</b>	236	C38 P3	900	28.869	39.423	8.185	0.00 14.55	PATB 235
ATOM	237	C39 P3	900	-0.608	47.060	17.434	0.64 14.55	PATB 236
ATOM	238	C40 P3	900	25.593	49.101	48.357	0.00 14.55	
ATOM	239	C41 P3	900	2.567	49.813			PATB 237
ATOM	240	C41 P3				44.169	0.50 14.55	PATB 238
			900	17.615	46.827	36.427	0.64 14.55	PATE 239
ATOM	241	C43 P3	900	0.854	45.415	24.577	0.50 14.55	PATB 240
MOTA	242	C44 P3	900	16.917	33.305	59.935	0.50 14.55	PATB 241
MOTA	243	C45 P3	900	-5.180	46.605	26.171	0.00 14.55	PATB 242
ATOM	244	C46 P3	900	-5.895	45.619	25.482	0.50 14.55	PATB 243
ATOM	245	C47 P3	900	17.355	49.060	35.701	0.00 14.55	PATB 244
ATOM	246	C48 P3	900	13.644	43.538	46.343		
ATOM	247	C49 P3	900	10.691			0.00 14.55	PATB 245
ATOM	248	C50 P3			44.515	44.939	0.00 14.55	PATB 246
			900	19.094	49.151	62.864	0.00 14.55	PATB 247
ATOM	249	C51 P3	900	17.274	32.651	58.749	0.64 14.55	PATB 248
ATOM	250	C52 P3	900	20.815	24.600	18.353	0.00 14.55	PATB 249
ATOM	251	C53 P3	900	-11.814	48.980	42.190	0.00 14.55	PATB 250
ATOM .	252	C54 P3	900	2.903	31.306	29.661	0.57 14.55	PATB 251
ATOM	253	C55 P3	900	23.320	54.740	28.666	0.00 14.55	PATB 252
MOTA	254	C56 P3	900	8.369	57.110	53.936	0.00 14.55	
ATOM	255	C57 P3	900	-9.880				PATB 253
ATOM	256	C58 P3			46.646	47.463	0.57 13.64	PATB 254
			900	-0.043	47.164	18.710	0.50 13.64	PATB 255
ATOM	257	C59 P3	900	15.180	31.663	59.887	0.50 13.64	PATB 256
MOTA	258	C60 P3	900	2.351	33.321	29.649	0.57 13.64	PATB 257
MOTA	259	C61 P3	900	-3.677	54.505	54.172	0.50 13.64	PATB 258
MOTA	260	C62 P3	900	-7.299	46.376	27.001	0.57 13.64	PATB 259
ATOM	261	C63 P3	900	28.814	39.905	6.575	0.50 13.64	PATB 260
ATOM	262	C64 P3	900	1.070	45.729	26.355	0.57 13.64	
ATOM	263	C65 P3	900	17.023	25.303	18.094		PATB 261
ATOM	264	C66 P3					0.57 13.64	PATB 262
			900	1.127	32.685	71.206	0.00 13.64	PATB 263
ATOM	265	C67 P3	900	8.978	43.401	44.514	0.00 13.64	PATB 264
ATOM	266	C68 P3	900	2.679	47.717	26.103	0.64 13.64	PATB 265
MOTA	267	C69 P3	900	-10.292	25.837	65.504	0.00 13.64	PATB 266
ATOM	268	C70 P3	900	8.531	31.519	48.219	0.57 13.64	PATB 267
ATOM	269	C71 P3	900	1.847	45.655	27.516	0.71 13.64	PATB 268
ATOM	270	C72 P3	900	18.585	46.343	37.314		
ATOM	271	C73 P3	900	17.726			0.71 13.64	PATB 269
ATOM	272				55.145	53.703	0.50 12.73	PATB 270
		C74 P3	900	16.586	46.422	35.570	0.00 12.73	PATB 271
ATOM	273	C75 P3	900	11.219	30.359	67.189	0.00 12.73	PATB 272
MOTA	274	C76 P3	900	-9.348	48.433	47.236	0.00 12.73	PATB 273
ATOM	275	C77 P3	900	-2.390	60.276	18.676	0.00 12.73	PATB 274
ATOM	276	C78 P3	900	9.559	44.686	44.933	0.00 12.73	PATB 275
MOTA	277	C79 P3	900	3.880	50.123	43.796	0.57 12.73	
ATOM	278	C80 P3	900					PATB 276
ATOM	279	C81 P3		2.715	51.393	44.420	0.50 12.73	PATB 277
			900	-6.868	62.449	30.836	0.00 12.73	PATB 278
ATOM	280	C82 P3	900	19.700	24.250	17.583	0.50 12.73	PATB 279

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ATOM	281	C83 P3	900	-3.200	48.487	16.693	0.00 12.73	PATB 280
ATOM	282	C84 P3	900	30.285	37.823	7.988	0.71 12.73	PATB 281
ATOM	283	C85 P3	900	14.045	57.353	18.314	0.50 12.73	PATB 282
ATOM	284	C86 P3	900	-2.967	47.373	17.508	0.50 12.73	PATB 283
ATOM	285	C87 P3	900	13.579	60.940	9.524	0.50 12.73	PATB 284
ATOM	286	C88 P3	900	-7.996	47.199	24.232	0.00 12.73	PATB 285
ATOM	287	C89 P3	900	24.351	30.969	9.045	0.50 12.73	PATB 286
ATOM	288	C90 P3	900	18.347	48.806	36.656	0.57 12.73	PATB 287
ATOM	289	C91 P3	900	15.130	57.578	17.459	0.71 12.73	PATB 288
ATOM	290	C92 P3	900	9.592	47.770	8.033	0.00 12.73	PATB 289
MOTA	291	C93 P3	900	4.442	32.844	31.025	0.64 12.73	PATB 290
ATOM	292	C94 P3	900	28.641	23.847	25.159	0.00 12.73	PATB 291
MOTA	293	C95 P3	900	16.573	26.677	16.020	0.57 11.82	PATB 292
ATOM	294	C96 P3	900	19.021	47.242	38.294	0.79 11.82	PATB 293
ATOM	295	C97 P3	900	16.046	31.985	58.835	0.57 11.82	PATB 294
ATOM	296	C98 P3	900	14.822	28.144	15.548	0.00 11.82	PATB 295
ATOM	297	C99 P3	900	0.538	45.161	27.518	0.64 11.82	PATB 296
ATOM	298	C1 P4	900	1.508	47.052	26.486	0.71 11.82	PATB 297
ATOM	299	C2 P4	900	23.698	56.526	27.127	0.00 11.82	PATB 298
ATOM	300	C3 P4	900	-0.035	43.651	25.392	0.00 11.82	PATB 299
ATOM	301	C4 P4	900	0.074	44.257	24.477	0.00 11.82	PATB 300
ATOM	302	C5 P4	900	1.481	46.301	19.938	0.50 11.82	PATB 301 PATB 302
ATOM	303	C6 P4	900	10.053	55.985	54.082	0.00 11.82	
ATOM	304	C7 · P4	900	-0.449	46.376	19.793	0.00 11.82	PATB 303 PATB 304
ATOM	305	C8 P4	900	-1.941	47.839 38.455	16.678	0.57 11.82 0.00 11.82	PATE 304 PATE 305
MOTA	306	C9 P4 C10 P4	900	-8.701 -6.067	26.121	61.844 55.372	0.00 11.82	PATE 305
ATOM ATOM	307 308	C10 P4	900 900	-0.022	45.560	23.496	0.57 11.82	PATB 307
ATOM	309	C11 P4	900	0.089	45.021	25.650	0.50 11.82	PATB 308
ATOM	310	C12 P4	900	8.193	47.828	8.041	0.50 11.82	PATE 309
ATOM	311	C14 P4	900	-9.546	25.324	64.385	0.00 11.82	PATB 310
ATOM	312	C15 P4	900	9.714	56.283	51.598	0.00 11.82	PATB 311
ATOM	313	C16 P4	900	24.048	51.102	51.663	0.00 11.82	PATB 312
ATOM	314	C17 P4	900	-4.324	61.641	43.704	0.50 11.82	PATB 313
ATOM	315	C18 P4	900	16.536	31.974	59.727	0.57 10.91	PATB 314
ATOM	316	C19 P4	900	3.198	33.487	31.032	0.71 10.91	PATE 315
ATOM	317	C20 P4	900	16.823	32.797	61.236	0.00 10.91	PATB 316
ATOM	318	C21 P4	900	18.744	24.638	16.636	0.57 10.91	PATB 317
ATOM	319	C22 P4	900	26.789	22.745	24.133	0.00 10.91	PATB 318
MOTA	320	C23 P4	900	24.056	31.669	7.869	0.00 10.91	PATB 319
MOTA	321	C24 P4	900	7.888	52.736	26.231	0.00 10.91	PATB 320
MOTA	322	C25 P4	900	19.729	49.989	37.865	0.50 10.91	PATB 321
ATOM	323	C26 P4	900	17.363	24.315	17.959		PATB: 322
ATOM	324	C27 P4	900	-2.717	55.415	54.631	0.00 10.91	PATB 323
MOTA	325	C28 P4	900	26.256	48.327	47.457	0.00 10.91	PATB 324
MOTA	326	C29 P4	900	1.551	44.459	28.181	0.00 10.91	PATB 325
MOTA	327	C30 P4	900	17.830	44.432	36.440	0.00 10.91	PATB 326
ATOM	328	C31 P4	900	-8.682	46.474	25.658	0.64 10.91	PATB 327
ATOM	329	C32 P4	900	-5.043	21.107	63.343	0.64 10.91	PATB 328
ATOM	330	C33 P4	900	-7.478	46.161	25.016	0.57 10.91	PATB 329 PATB 330
ATOM	331	C34 P4	900	-5.561	54.698	51.413	0.00 10.91 0.00 10.91	PATE 330
ATOM ATOM	332 333	C35 P4 C36 P4	900 900	0.393 13.191	46.158 57.258	21.003 19.420	0.00 10.91	PATE 331
ATOM	334	C36 P4	900	-2.620	48.291	15.420	0.57 10.91	PATB 333
ATOM	335	C38 P4	900	18.292	45.252	38.142	0.79 10.91	PATB 334
MOTA	336	C39 P4	900	-4.804	55.237	53.781	0.57 10.91	. PATB 335
ATOM	337	C40 P4	900	-10.576	62.690	33.314	0.00 10.91	PATB 336
ATOM	338	C41 P4	900	-8.366	28.784	51.462	0.00 10.91	PATB 337
ATOM	339	C42 P4	900	20.558	49.157	37.103	0.00 10.00	PATB 338
ATOM	340	C43 P4	900	16.879	44.027	36.336	0.00 10.00	PATB 339
ATOM	341	C44 P4	900	10.106	53.318	26.692	0.00 10.00	PATB 340
ATOM	342	C45 P4	900	7.421	32.596	46.701	0.50 10.00	PATB 341
ATOM	343	C46 P4	900	4.971	51.657	26.782	0.00 10.00	PATB 342
ATOM	344	C47 P4	900	18.275	50.060	36.039	0.50 10.00	PATB 343
ATOM	345	C48 P4	900	14.355	30.518	61.340	0.00 10.00	PATB 344
ATOM	346	C49 P4	900	8.787	52.992	26.619	0.00 10.00	PATE 345
ATOM	347	C50 P4	900	18.159	23.421	18.685	0.00 10.00	PATB 346
ATOM	348	C51 P4	900	8.563	57.929	55.919	0.00 10.00	PATB 347
ATOM	349	C52 P4	900	-5.030	46.304	27.298	0.00 10.00	PATB 348
MOTA	350	C53 P4	900	2.804	29.946	29.979	0.79 10.00	PATB 349
MOTA	351	C54 P4	900	9.627	29.422	67.940	0.00 10.00	PATB 350

T.MOV.	250								
ATOM	352	C55 P4	900	-0.854	44.613	24.105	0.00	10.00	PATB 351
ATOM	353	C56 P4	900	2.649	32.254	30.659	0.64	10.00	PATB 352
ATOM	354	C57 P4	900	19.818	50.875	36.089		10.00	PATB 353
ATOM	355	C58 P4	900	13.833	60.761				
ATOM	356	C59 P4				10.815		10.00	PATB 354
			900	-6.930	26.377	52.962	0.57	10.00	PATB 355
ATOM	357	C60 P4	900	-9.640	47.365	25.161	0.00	10.00	PATB 356
ATOM	358	C61 P4	900	-6.121	45.696	26.667	0.50	10.00	PATB 357
ATOM	359	C62 P4	900	1.175	48.188	25.738		10.00	PATB 358
ATOM	360	C63 P4	900	22.936	55.992	28.173			
ATOM	361	C64 P4						10.00	PATB 359
			900	4.440	47.472	27.630	0.50	9.09	PATB 360
ATOM	362	C65 P4	900	-3.647	52.299	57.862	0.00	9.09	PATB 361
ATOM	363	C66 P4	900	-8.484	27.385	54.212	0.00	9.09	PATB 362
ATOM	364	C67 P4	900	8.382	46.278	9.084	0.00	9.09	PATB 363
ATOM	365	C68 P4	900	29.259	38.443	7.264	0.50	9.09	PATB 364
ATOM	366	C69 P4	900	9.291					
ATOM		C70 P4			34.016	47.121	0.00	9.09	PATB 365
	367		900	16.351	32.236	56.967	0.00	9.09	PATB 366
ATOM	368	C71 P4	900	-3.781	60.963	43.135	0.50	9.09	PATB 367
ATOM	369	C72 P4	900	28.470	38.626	6.122	0.00	9.09	PATB 368
ATOM	370	C73 P4	900	14.322	29.820	60.362	0.00	9.09	PATB 369
ATOM	371	C74 P4	900	7.160	30.683				
ATOM	372	C75 P4				48.268	0.00	9.09	PATB 370
			900	-3.023	45.782	25.014	0.00	9.09	PATB 371
ATOM	373	C76 P4	900	6.851	48.018	7.691	0.57	9.09	PATB 372
ATOM	374	C77 P4	900	28.579	40.877	7.555	0.00	9.09	PATB 373
ATOM	375	C78 P4	900	7.672	48.983	5.888	0.57	9.09	PATB 374
ATOM	376	C79 P4	900	18.863	34.849	59.034	0.00	9.09	
ATOM	377	C80 P4	900	7.291					PATB 375
ATOM	378				53.383	25.754	0.00	9.09	PATB 376
		C81 P4	900	4.013	28.575	30.533	0.00	9.09	PATB 377
MOTA	379	C82 P4	900	16.464	25.276	16.811	0.64	9.09	PATB 378
MOTA	380	C83 P4	900	16.307	45.304	36.365	0.50	9.09	PATB 379
ATOM	381	C84 P4	900	19.533	48.941	38.772	0.00	9.09	PATB 380
ATOM	382	C85 P4	900	17.760	32.263	60.342	0.64	9.09	
ATOM	383	C86 P4	900			-			PATB 381
				1.656	30.670	29.637	0.71	9.09	PATB 382
ATOM	384	C87 P4	900	1.582	32.583	28.742	0.64	9.09	PATB 383
MOTA	385	C88 P4	900	3.904	31.643	30.548	0.57	9.09	PATB 384
MOTA	386	C89 P4	900	0.935	46.621	25.284	0.64	9.09	PATB 385
ATOM	387	C90 P4	900	-5.000	54.116	52.965	0.50	9.09	PATB 386
ATOM	388	C91 P4	900	1.404	47.698	24.447			
ATOM	389	C92 P4	900				0.71	9.09	PATB 387
				-10.319	64.015	32.372	0.00	8.18	PATB 388
ATOM	390	C93 P4	900	5.451	48.106	28.362	0.00	8.18	PATB 389
ATOM	391	C94 P4	900	0.575	34.590	28.232	0.00	8.18	PATB 390
ATOM	392	C95 P4	900	5.558	48.457	43.321	0.57	8.18	PATB 391
MOTA	393	C96 P4	900	2.946	28.015	29.634	0.00	8.18	PATB 392
ATOM	394	C97 P4	900	-3.455	60.708	19.776			
ATOM	395	C98 P4	900				0.00	8.18	PATB 393
				14.280	45.428	45.111	0.00	8.18	PATB 394
ATOM	396	C99 P4	900	-5.296	61.549	30.782	0.57	8.18	PATB 395
ATOM	397	C1 P5	900	28.350	40.723	5.374	0.50	8.18	PATB 396
MOTA	398	C2 P5	900	3.057	47.413	27.416	0.57	8.18	PATB 397
ATOM	399	C3 P5	900	0.746	46.545	27.546	0.79	8.18	PATB 398
ATOM	400	C4 P5	900	27.552	41.855	5.166	0.00		
ATOM	401	C5 P5	900					8.18	PATB 399
ATOM	402			-8.294	26.688	53.013	0.50	8.18	PATB 400
		C6 P5	900	24.551	50.878	49.945	0.00	8.18	PATB 401
ATOM	403	C7 P5	900	17.343	45.704	37.218	0.57	8.18	PATB 402
ATOM	404	C8 P5	900	-1.918	46.520	17.146	0.64	8.18	PATB 403
MOTA	405	C9 P5	900	29.330	26.893	28.994	0.57	8.18	PATB 404
ATOM	406	C10 P5	900	-0.606	45.833	24.746	0.57	8.18	PATB 405
ATOM	407	C11 P5	900						
ATOM				18.404	23.773	17.352	0.57	8.18	PATB 406
	408	C12 P5	900	5.125	49.850	43.217	0.64	8.18	PATB 407
ATOM	409	C13 P5	900	19.994	35.257	59.568	0.00	8.18	PATB 408
MOTA	410	C14 P5	900	-7.801	26.163	54.214	0.64	8.18	PATB 409
ATOM	411	C15 P5	900	-12.635	48.443	42.641	0.00	8.18	PATB 410
ATOM	412	C16 P5	900	18.344					
ATOM					49.986	37.660	0.64	8.18	PATB 411
	413	C17 P5	900	19.171	50.771	36.846	0.57	8.18	PATB 412
ATOM	414	C18 P5	900	5.324	32.957	32.756	0.00	8.18	PATB 413
ATOM	415	C19 P5	900	9.311	45.555	44.396	0.00	8.18	PATE 414
ATOM	416	C20 P5	900	15.336	27.188	16.432	0.50	8.18	PATB 415
ATOM	417	C21 P5	900	1.730	32.067	29.606	0.64	8.18	PATB 416
ATOM	418	C22 P5	900	8.714	48.492	6.685	0.64	8.18	
ATOM	419	C23 P5							PATB 417
			900	24.152	51.567	53.537	0.50	8.18	PATB 418
ATOM	420	C24 P5	900	9.607	32.682	48.909	0.00	8.18	PATB 419
ATOM	421	C25 P5	900	9.218	57.937	54.682	0.50	7.27	PATB 420
MOTA	422	C26 P5	900	-3.276	52.798	56.959	0.00	7.27	PATB 421

ATOM	423	C27 P5	900	-12.051	47.560	41.228	0.00	7.27	PATB	422
ATOM	424	C28 P5	900	-7.244	45.530	25.847	0.57	7.27	PATB	
ATOM	425	C29 P5	900	9.148	54.338	26.748	0.57	7.27	PATB	
ATOM	426	C30 P5	900	18.157	33.564	59.339	0.71	7.27	PATB	
ATOM	427	C31 P5	900	-3.272	35.195	40.895	0.50	7.27	PATB	
ATOM	428	C32 P5	900	26.336	49.720	47.344	0.50	7.27	PATB	
ATOM	429	C33 P5	900	1.920	28.961	29.524	0.93	7.27	PATB	
ATOM	430	C34 P5	900	-0.522	44.564	26.824	0.71	7.27	PATB	429
ATOM	431	C35 P5	900	-0.951	44.704	25.499	0.50	7.27	PATB	430
ATOM	432	C36 P5	900	15.084	45.808	35.906	0.00	7.27	PATB	431
ATOM	433	C37 P5	900	0.772	31.442	28.798	0.71	7.27	PATB	432
ATOM	434	C38 P5	900	-8.917	24.549	64.634	0.00	7.27	PATB	433
ATOM	435	C39 P5	900	25.129	51.215	52.598	0.00	7.27	PATB	
ATOM	436	C40 P5	900	-4.149	45.716	25.843	0.50	7.27	PATB	
								7.27	PATB	
ATOM	437	C41 P5	900	9.651	57.413	53.461	0.50			
ATOM	438	C42 P5	900	16.085	31.641	60.955	0.57	7.27	PATB	
ATOM	439	C43 P5	900	14.915	30.910	63.010	0.00	7.27	PATB	
ATOM	440	C44 P5	900	18.027	48.111	37.829	0.71	7.27	PATB	
ATOM	441	C45 P5	900	-9.353	37.820	63.773	0.00	7.27	PATB	440
ATOM	442	C46 P5	900	10.611	54.259	26.352	0.00	6.36	PATB	441
ATOM	443	C47 P5	900	6.850	31.859	45.656	0.00	6.36	PATB	442
ATOM	444	C48 P5	900	5.093	52.902	25.995	0.00	6.36	PATB	443
ATOM	445	C49 P5	900	12.708	57.768	18.315	0.00	6.36	PATB	444
ATOM	446	C50 P5	900	1.881	31.086	30.592	0.71	6.36	PATB	
ATOM	447	C51 P5	900	20.318	51.133	38.416	0.00	6.36	PATB	
				29.446	28.793	30.134	0.64	6.36	PATB	
ATOM	448	C52 P5	900						PATE	
MOTA	449	C53 P5	900	12.653	44.272	44.275	0.71	6.36		
ATOM	450	C54 P5	900	10.311	55.830	25.141	0.00	6.36	PATB	
ATOM	451	C55 P5	900	28.676	27.695	30.538	0.71	6.36	PATB	
ATOM	452	C56 P5	90 <b>0</b>	14.603	43.035	46.282	0.00	6.36	PATB	
MOTA	453	C57 P5	900	-5.493	34.757	40.920	0.64	6.36	PATB	
ATOM	454	C58 P5	900	27.383	41.240	4.082	0.00	6.36	PATB	
ATOM ·	455	C59 P5	900	15.875	31.848	62.323	0.00	6.36	PATB	454
ATOM	456	C60 P5	900	-11.430	26.001	64.868	0.00	6.36	PATB	455
ATOM	457	C61 P5	900	-2.472	46.278	18.226	0.64	6.36	PATB	456
ATOM	458	C62 P5	900	13.073	59.877	11.591	0.00	6.36	PATB	
	459	C63 P5	900	7.817	47.846	6.692	0.64	6.36	PATB	
ATOM							0.00	6.36	PATB	
ATOM	460	C64 P5	900	6.422	49.401	5.416			PATB	
ATOM	461	C65 P5	900	-1.659	47.273	15.429	0.64	6.36		
ATOM	462	C66 P5	900	-6.707	25.352	53.890	0.71	6.36	PATB	
ATOM	463	C67 P5	900	7.492	31.165	46.996	0.57	6.36	PATB	
ATOM	464	C68 P5	900	25.272	30.437	8.135	0.00	6.36	PATB	
MOTA	465	C69 'P5	900	20.216	48.861	63.648	0.50	6.36	PATB	
ATOM	466	C70 P5	900	2.805	50.766	43.172	0.64	6.36	PATB	465
ATOM	467	C71 P5	900	28.089	22.667	24.645	0.50	6.36	PATB	466
MOTA	468	C72 P5	900	17.877	43.374	37.034	0.00	6.36	PATB	467
ATOM	469	C73 P5	900	15.438	30.725	58.880	0.64	6.36	PATB	468
ATOM	470	C74 P5	900	5.416	52.854	27.356	0.64	5.45	PATB	469
ATOM	471	C75 P5		-6.341	44.959	24.330	0.00	5.45	PATB	
	472	C76 P5		2.803	30.905	30.999	0.71	5.45	PATB	
ATOM				25.894	50.345	48.924	0.50	5.45	PATB	
ATOM	473	C77 P5							PATB	
ATOM	474	C78 P5		-8.239	28.416	50.364	0.00	5.45		
ATOM	475	C79 P5		-3.386	54.061	56.263	0.00	5.45	PATB	
ATOM	476	C80 P5		-0.875	46.421	16.217	0.71	5.45	PATB	
ATOM	477	C81 P5	900	<b>-</b> 5.968	54.897	52.324	0.00	5.45	PATB	
ATOM	478	C82 P5	900	16.964	50.249	35.585	0.00	5.45	PATB	
ATOM	479	C83 P5	900	-3.519	45.106	26.934	0.71	5.45	PATB	478
ATOM	480	C84 P5	900	-10.006	25.309	63.210	0.00	5.45	PATB	479
ATOM	481	C85 P5		-0.005	32.489	27.589	0.00	5.45	PATB	480
ATOM	482	C86 P5		7.814	53.952	26.921	0.50	5.45	PATB	
ATOM	483	C87 P5		-2.137	45.276	25.973	0.64	5.45	PATB	
				8.594	33.333	46.499	0.00	5.45	PATB	
MOTA	484	C88 P5				18.690	0.00	5.45	PATE	
ATOM	485	C89 P5		0.877	46.109			5.45	PATE	
ATOM	486	C90 P5		-4.388	34.085	40.382	0.57			
MOTA	487	C91 P5		-2.685	34.587	40.196	0.50	5.45	PATB	
MOTA	488	C92 P5		26.683	49.232	48.610	0.00	5.45	PATE	
MOTA	489	C93 P5		-4.908	45.008	26.782	0.57	5.45	PATB	
ATOM	490	C94 P5	900	-4.824	44.926	24.904	0.00	5.45	PATB	
ATOM	491	C95 P5	900	-4.245	32.918	41.142	0.00	4.55	PATB	
ATOM	492	C96 P5		17.147	44.391	37.661	0.50	4.55	PATB	491
ATOM	493	C97 P5		1.438	32.957	30.647	0.71	4.55	PATB	492
		20		2.100						

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ATOM	494	C98 E	-	19.831	24.276	16.189	0.57	4.55	PATB 493
ATOM	495	C99 E	900	1.790	47.012	27.857	0.79	4.55	PATB 494
ATOM	496	C1 F	6 900	17.781	24.982	15.680	0.64	4.55	PATB 495
ATOM	497	C2 E	6 900	15.547	26.867	15.086	0.79	4.55	PATB 496
ATOM	498	C3 F	6 900		45.917	28.049	0.57		
ATOM	499		6 900		31.252			4.55	PATB 497
ATOM	500		6 900			58.752	0.71	4.55	PATB 498
ATOM	501	_	6 900	-4.258	36.119	40.529	0.57	4.55	PATB 499
ATOM	502			17.684	46.399	38.384	0.79	4.55	PATB 500
			6 900	1.090	33.788	29.258	0.71	4.55	PATB 501
ATOM	503		6 900	4.061	33.330	32.281	0.79	4.55	PATB 502
ATOM	504		6 900	-4.891	51.837	57.415	0.50	4.55	PATB 503
ATOM	505	C10 P		-9.949	38.023	62.309	0.50	4.55	PATB 504
ATOM	506	C11 P	6 900	28.961	22.438	23.574	0.57	4.55	PATB 505
ATOM	507	C12 P	6 900	20.396	47.479	63.508	0.00	4.55	PATB 506
ATOM	508	C13 P	6 900	-10.795	64.666	33.517	0.57	4.55	PATB 507
ATOM	509	C14 P	6 900	5.877	55.552	26.272	0.00	4.55	
ATOM	510	C15 P		2.599	32.014				PATB 508
ATOM	511	C16 P				71.658	0.57	4.55	PATB 509
ATOM	512	C17 P		11.434	30.787	68.307	0.00	4.55	PATB 510
ATOM	513	C18 P		-5.751	62.478	29.838	0.00	4.55	PATB 511
ATOM				5.508	47.523	8.392	0.00	4.55	PATB 512
	514	C19 P		4.340	48.830	27.912	0.50	4.55	PATB 513
ATOM	515	C20 P		-9.684	28.127	52.928	0.00	4.55	PATB 514
ATOM	516	C21 P		-2.470	33.368	40.448	0.50	4.55	PATB 515
ATOM	517	C22 P		-3.801	46.684	18.397	0.00	4.55	PATB 516
ATOM	518	C23 P	6 900	3.483	32.158	31.780	0.71	3.64	PATB 517
ATOM	519	C24 P	6 900	15.326	58.725	18.590	0.00	3.64	PATB 518
ATOM	520	C25 P	6 900	-5.667	53.164	51.523	0.00	3.64	PATE 519
ATOM	521	C26 P	6 900	29.828	39.046	6.135	0.57	3.64	
ATOM	522	C27 P		16.918	30.744	60.276	0.64		PATB 520
ATOM	523	C28 P		20.019	34.492	58.607		3.64	PATB 521
ATOM	524	C29 P		27.932			0.00	3.64	PATB 522
ATOM	525	C30 P			42.525	3.997	0.50	3.64	PATB 523
ATOM	526	C31 P		7.700	54.722	25.757	0.64	3.64	PATB 524
ATOM				-9.998	63.527	33.679	0.00	3.64	PATB 525
	527	C32 P		30.918	28.781	29.652	0.71	3.64	PATB 526
ATOM	528	C33 P		13.862	44.869	43.897	0.64	3.64	PATE 527
ATOM	529	C34 P		-3.970	48.010	15.675	0.00	3.64	PATB 528
ATOM	530	C35 P		-10.921	25.607	62.886	0.00	3.64	PATB 529
ATOM	531	C36 P		14.227	58.612	17.730	0.64	3.64	PATB 530
ATOM	532	C37 P		-11.346	24.967	65.808	0.57	3.64	PATB 531
ATOM	533	C38 P	6 900	9.270	44.411	43.591	0.50	3.64	PATB 532
ATOM	534	C39 P	900	19.416	45.721	38.832	0.00	3.64	PATB 533
ATOM	535	C40 P	6 900	30.310	37.812	6.588	0.64	3.64	
ATOM	536	C41 P		9.911	55.469	26.433	0.64	3.64	PATB 534
ATOM	537	C42 P		3.999	51.516	43.877			PATB 535
ATOM	538	C43 P		25.269	50.830	47.770	0.64	3.64	PATB 536
ATOM	539	C44 P					0.00	3.64	PATB 537
ATOM	540	C45 P		15.877	46.575	36.767	0.57	3.64	PATB 538
ATOM	541			-8.129	27.410	51.332	0.50	3.64	PATB 539
ATOM		C46 P		17.154	23.167	18.732	0.00	3.64	PATB 540
	542	C47 P		1.603	29.715	30.660	0.86	3.64	PATB 541
ATOM	543	C48 P		-1.451	43.428	25.783	0.00	3.64	PATB 542
ATOM	544	C49 P		-9.538	27.543	53.879	0.00	3.64	PATB 543
MOTA	545	C50 P		28.895	39.684	5.309	0.50	3.64	PATB 544
MOTA	546	C51 P		13.671	58.508	19.011	0.57	3.64	PATB 545
MOTA	547	C52 P	900	7.366	57.885	53.982	0.00	3.64	PATB 546
ATOM	548	C53 P	5 900	19.958	47.779	64.498	0.00	3.64	PATB 547
ATOM	549	C54 P6	900	1.201	45.747	28.603	0.71	3.64	PATB 548
ATOM	550	C55 P		-2.879	47.252	16.116	0.57		
ATOM	551	C56 P		-8.487				2.73	PATB 549
ATOM	552	C57 P		10.995	63.710 29.459	32.963	0.00	2.73	PATB 550
ATOM	553					68.238	0.50	2.73	PATB 551
ATOM	554	C58 P6		0.600	31.480	30.187	0.79	2.73	PATB 552
ATOM		C59 P6		19.136	25.222	15.425	0.50	2.73	PATB 553
	555	C60 P6		-1.676	45.586	24.688	0.57	2.73	PATB 554
ATOM	556	C61 P6		18.962	51.498	35.173	0.50	2.73	PATB 555
ATOM	557	C62 P6		-1.183	61.695	19.644	0.00	2.73	PATB 556
ATOM	558	C63 P6		5.200	54.088	26.731	0.71	2.73	PATB 557
ATOM	559	C64 P6	900	30.541	27.597	29.008	0.64	2.73	PATB 558
ATOM	560	C65 P6		-10.139	24.459	65.312	0.50	2.73	PATE 559
ATOM	561	C66 P6		17.385	24.313	16.559	0.64	2.73	
ATOM	562	C67 P6		8.338	30.257	47.644			PATB 560
ATOM	563	C68 P6		-4.943			0.64	2.73	PATB 561
ATOM	564	C69 P6			45.210	28.167	0.64	2.73	PATB 562
01 1	554	009 P	, 500	0.369	33.280	28.682	0.71	2.73	PATB 563

ATOM	565	C70	Р6	900	2.648	28.794	30.759	0.86	2.73	PATE	564
MOTA	566	C71	P6	900	13.791	44.117	45.076	0.50	2.73		565
ATOM	567	C72		900	16.865				2.73		
						47.177	37.556	0.71			566
ATOM	568	C73		900	20.043	52.030	34.459	0.00	2.73	PATE	567
ATOM	569	C74	Р6	900	-9.433	64.715	33.199	0.50	2.73	PATE	568
MOTA	570	C75	P6	900	-2.999	59.803	43.058	0.00	2.73	PATE	569
ATOM	571	C76		900	6.504	48.396	6.388		2.73		
								0.64			570
ATOM	572	C77		900	27. <b>77</b> 7	22.043	23.432	0.57	2.73	PATE	571
ATOM	573	C78	P6	900	-7.738	26.165	51.839	0.79	2.73	PATE	572
ATOM	574	C79	P6	900	-4.058	44.321	25.908	0.64	2.73		573
ATOM	575	C80		900							
					17.842	50.980	37.233	0.64	2.73		574
ATOM	576	C81		900	17.029	48.398	36.891	0.64	1.82	PATE	575
ATOM	577	C82	P6	900	0.891	27.441	28.946	0.00	1.82	PATE	576
ATOM	578	C83	P6	900	-2.213	61.665	18.697	0.50	1.82		577
ATOM	579	C84		900		49.096					
					4.227		42.453	0.00	1.82		578
ATOM	580	C85		900	29.880	27.861	29.844	0.64	1.82	PATE	579
ATOM	581	C86	P6	900	8.557	57.433	52.587	0.57	1.82	PATE	580
ATOM	582	C87	P6	900	-9.553	39.235	62.887	0.00	1.82	מתמק	581
ATOM	583	C88		900	5.906	48.911	28.973	0.00	1.82		582
ATOM	584	C89		900	19.492	33.789	59.697	0.79	1.82	PATE	583
MOTA	585	C90	P6	900	15.445	25.848	16.041	0.71	1.82	PATE	584
ATOM	586	C91	P6	900	6.758	53.036	27.001	0.57	1.82	PATE	585
ATOM	587	C92	P6	900	19.939	52.247	35.839	0.64	1.82		586
ATOM	588										
		C93		900	-9.015	27.596	51.820	0.50	1.82		587
ATOM	589	C94	P6	900	4.940	50.092	27.823	0.00	1.82	PATE	588
ATOM	590	C95	P6	900	21.007	23.543	16.391	0.71	1.82	PATE	589
ATOM	591	C96	P6	900	4.195	47.893	28.943	0.57	1.82		590
ATOM	592	C97		900							
					-1.373	34.130	40.029	0.00	1.82		591
ATOM	593	C98	P6	900	-1.879	44.221	26.855	0.79	1.82	PATB	592
ATOM	594	C99	P6	900	8.517	55.566	26.518	0.71	1.82	PATB	593
ATOM	595	C1	P7	900	18.937	51.097	38.188	0.64	1.82	PATB	
ATOM	596	C2	P7	900							
					1.403	32.061	72.384	0.00	1.82		595
ATOM	597	СЗ	P7	900	24.891	51.557	48.355	0.00	1.82	PATB	596
ATOM	598	C4	P7	900	16.476	25.417	15.418	0.71	1.82	PATB	597
ATOM	599	C5	P7	900	8.066	58.711	54.869	0.57	1.82	PATB	
ATOM	600	C6	P7	900	14.363	44.789	36.685	0.00	1.82		
										PATB	
ATOM	601	C7	P7	900	-7.220	25.348	55.192	0.79	1.82	PATB	600
ATOM	602	C8	P7	900	-4.120	47.128	16.752	0.64	1.82	PATB	601
ATOM	603	C9	P7	900	3.197	52.652	44.040	0.71	1.82	PATB	602
ATOM	604	C10		900	-8.379	45.550	26.666	0.71	1.82	PATB	
ATOM	605	C11	P7	900							
					27.226	48.908	46.631	0.57	1.82	PATB	
ATOM	606	C12		900	4.220	32.122	32.969	0.86	1.82	PATB	605
ATOM	607	C13	P7	-900	18.273	52.114	34.121	0.00	0.91	PATB	606
ATOM	608	C14	P7	900	15.371	29.473	59.503	0.71	0.91	PATB	607
ATOM	609	C15		900	-6.787	25.206	52.208	0.86	0.91	PATB	
MOTA	610	C16		900	9.569	30.580	48.227	0.71	0.91	PATB	
ATOM	611	C17	P7	900	16.198	31.096	57.765	0.71	0.91	PATB	610
ATOM	612	C18	P7	900	25.674	51.595	49.514	0.57	0.91	PATB	611
ATOM	613	C19	P7	900	15.801	44.759	37.551	0.86	0.91	PATB	
ATOM	614	C20		900	1.658	27.706			0.91	PATB	
							30.087	1.00			
ATOM	615	C21		900	19.756	51.916	37.400	0.71	0.91	PATB	614
ATOM	616	C22	P7	900	20.200	26.001	14.955	0.00	0.91	PATB	615
ATOM	617	C23	P7	900	0.901	44.457	29.056	0.00	0.91	PATB	616
ATOM	618	C24		900	-4.925	35.194	39.717	0.71	0.91	PATB	
ATOM	619	C25		900 .	9.809	31.884	47.777	0.64	0.91	PATB	
ATOM	620	C26	₽7	900	-0.133	45.343	28.733	0.79	0.91	PATB	619
ATOM	621	C27	P7	900	-3.967	53.934	57.794	0.00	0.91	PATB	620
ATOM	622	C28	P7	900	27.831	48.869	47.893	0.00	0.91	PATB	
ATOM	623	C29		900	-7.091	45.069				PATB	
							27.459	0.64	0.91		
ATOM	624	C30		900	-5.657	36.086	40.510	0.79	0.91	PATB	
MOTA	625	C31		900	-4.072	52.643	59.014	0.00	0.91	PATB	
ATOM	626	C32	P7	900	-6.002	44.397	26.158	0.64	0.91	PATB	625
ATOM	627	C33		900	6.090	54.019	27.742	0.71	0.91	PATB	
ATOM	628	C34		900	17.194	49.788	36.886	0.57	0.91	PATB	
ATOM	629	C35		900	-0.925	61.934	18.218	0.00	0.91	PATB	628
ATOM	630	C36	P7	900	10.771	30.742	69.074	0.00	0.91	PATB	629
ATOM	631	C37		900	19.785	23.051	16.865	0.64	0.91	PATB	
ATOM	632	C38		900	29.209	41.231				PATB	
							6.356	0.57	0.91		
ATOM	633	C39		900	7.452	46.767	7.506	0.71	0.91	PATB	
ATOM	634	C40		900	-9.180	26.194	53.977	0.57	0.00	PATB	633
ATOM	635	C41	P7	900	13.758	42.723	45.210	0.57	0.00	PATB	634
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MOTA	636	C42 P7	900	20.890	23.124	17.721	0.00	0.00	PATB	635
ATOM	637	C43 P7	900	28.415	40.172	4.088	0.00	0.00	PATB	
ATOM	638	C44 P7	900	20.474	24.930	15.131	0.00	0.00		
ATOM	639	C45 P7	900	16.226	46.014	38.002	0.79		PATB	
ATOM	640	C46 P7	900	-10.868	24.889	_		0.00	PATB	
ATOM	641	C47 P7				64.230	0.50	0.00	PATB	639
			900	15.036	44.414	44.510	0.57	0.00	PATB	640
ATOM	642	C48 P7	900	18.148	49.147	38.763	0.79	0.00	PATB	641
ATOM	643	C49 P7	900	-4.316	48.180	14.689	0.00	0.00	PATB	
ATOM	644	C50 P7	900	24.945	52.037	50.625	0.64			
ATOM	645	C51 P7	900		-			0.00	PATB	643
ATOM				0.624	47.900	28.493	0.00	0.00	PATB	644
-	646	C52 P7	900	6.550	54.339	26.459	0.57	0.00	PATB	645
ATOM	647	C53 P7	900	-7.877	25.353	53.075	0.71	0.00	PATB	
ATOM	648	C54 P7	900	17.766	51.356	35.887	0.57			
ATOM	649	C55 P7	900	15.648				0.00	PATB	-
ATOM	650		•		30.541	61.876	0.50	0.00	PATB	648
			900	15.564	30.455	60.481	0.57	0.00	PATB	649
ATOM	651	C57 P7	900	0.701	29.647	29.591	1.00	0.00	PATB	650
ATOM	652	C58 P7	900	26.098	51.282	50.874	0.00	0.00		
ATOM	653	C59 P7	900	-2.519					PATB	651
			200	-2.519	61.708	20.063	0.57	0.00	PATB	652

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# APPENDIX IV

ATOM	1	C1 P1	900	-20.175 98.0	8 52.430	0.00 50.00	PATB	0
ATOM	2	C2 P1	900	-20.307 99.1	.5 52.633	0.00 49.12	PATB	1
ATOM	3	C3 P1	900	-19.364 98.6	5 52.128	0.00 45.61	PATB	2
ATOM	4	C4 P1	900	-26.846 108.13	45.266	0.00 44.74	PATB	3
ATOM	5	C5 P1	900	-19.348 98.3	59 53.501	0.50 41.23	PATB	4
ATOM	6	C6 P1	900	-21.146 97.6	53.553	0.00 41.23	PATB	5
ATOM	7	C7 P1	900	-20.676 97.1	8 52.790	0.00 41.23	PATB	6
ATOM	8	C8 P1	900	-26.049 108.8	25 44.950	0.00 40.35	PATB	7
ATOM	9	C9 P1	900	-19.429 100.2	34 53.163	0.00 38.60	PATB	8
ATOM	10	C10 P1	900	-25.940 108.5	6 46.102	0.00 37.72	PATB	9
ATOM	11	C11 P1	900	-26.582 109.8	9 45.225	0.00 37.72	PATB	10
ATOM	12	C12 P1	900	-18.497 99.6		0.00 35.96	PATB	11
ATOM	13	C13 P1	900	-23.400 78.9		0.00 34.21	PATB	12
ATOM	14	C14 P1	900	-27.919 102.7		0.00 34.21	PATB	13
ATOM	15	C15 P1	900	-26.633 110.0		0.00 34.21	PATB	14
ATOM	16	C16 P1	900	-22.664 78.4		0.00 33.33	PATB	15
ATOM	17	C17 P1	900	-23.452 78.0		0.00 33.33	PATB	16
ATOM	18	C18 P1	900	-24.094 98.0		0.00 32.46	PATB	17
ATOM	19	C19 P1	900	<b>-1</b> 7.819 98.6		0.00 32.46	PATB	18
ATOM	20	C20 P1	900	-23.184 75.5		0.00 31.58	PATB	19
ATOM	21	C21 P1	900	-24.400 91.8		0.00 31.58	PATB	20
ATOM	22	C22 P1	900	-22.670 75.1		0.00 31.58	PATB	21
ATOM	23	C23 P1	900	-25.127 110.5		0.00 31.58	PATB	22
ATOM	24	C24 P1	900	-22.795 76.7		0.50 30.70	PATB	23
ATOM	25	C25 P1	900	-12.540 86.8 <sub>1</sub>		0.00 30.70	PATB	24
ATOM	26	C26 P1	900	-18.732 100.2		0.00 30.70	PATB	25
ATOM	27	C27 P1	900	-0.820 82.2		0.00 29.82	PATB	26
ATOM	28	C28 P1	900	-23.635 77.8		0.00 29.82	PATB	27
ATOM	29	C29 P1	900	-21.477 76.2		0.00 28.95	PATB	28
ATOM	30	C30 P1	900	-21.046 101.2		0.00 28.07	PATB	29
ATOM	31	C31 P1	900	-12.894 95.1		0.00 28.07	PATB	30
ATOM	32	C32 P1	900	-25.515 111.4		0.00 28.07	PATB	31
ATOM	33	C33 P1	900	-21.102 75.4		0.00 28.07	PATB	32
ATOM	34	C34 P1	900	-22.594 77.13		0.50 28.07	PATB	33
ATOM	35	C35 P1	900	-22.938 77.7		0.00 28.07	PATB	34
AT:OM	36	C36 P1	900	-14.074 85.5		0.00 28.07	PATB	35
ATOM	37	C37 P1	900	-6.310 74.83		0.00 28.07	PATB	36
ATOM	38	C38 P1	900	-18.425 98.92		0.50 28.07	PATB	37
ATOM	39	C39 P1	900	-25.993 111.73		0.00 28.07	PATB	38
ATOM	40	C40 P1	900	-13.700 86.13		0.00 28.07 0.50 28.07	PATB	39
ATOM ATOM	41 42	C41 P1 C42 P1	900	-22.275 76.2° -34.023 101.98		0.00 28.07	PATB PATB	40 41
ATOM	43	C42 P1	900 900	-28.695 101.7		0.00 28.07	PATB	42
ATOM	44	C43 P1	900	-21.410 82.8		0.00 27.19	PATB	43
ATOM	45	C44 P1	900	1.853 80.23		0.00 27.19	PATB	44
ATOM	46	C46 P1	900	-22.444 77.8		0.50 27.19	PATB	45
ATOM	47	C47 P1	900	-22.266 78.4		0.00 26.32	PATB	46
ATOM	48	C48 P1	900	-5.550 73.5		0.00 26.32	PATB	47
ATOM	49	C49 P1	900	-1.471 83.43		0.00 26.32	PATB	48
ATOM	50	C50 P1	900	-28.854 103.5		0.50 26.32	PATE	49
ATOM	51	C51 P1	900	-21.926 76.6		0.00 26.32	PATB	50
ATOM	52	C52 P1	900	0.142 82.3		0.50 26.32	PATB	51
ATOM	53	C53 P1	900	0.702 81.0		0.00 25.44	PATB	52
ATOM	54	C54 P1	900	-8.557 75.13		0.00 25.44	PATB	53
ATOM	55	C55 P1	900	-27.847 104.1		0.00 25.44	PATB	54
ATOM	56	C56 P1	900	-25.218 111.9		0.00 25.44	PATB	55
ATOM	57	C57 P1	900	-21.990 74.5		0.00 25.44	PATB	56
ATOM	58	C58 P1	900	-14.223 95.4		0.00 25.44	PATB	57
ATOM	59	C59 P1	900	-14.178 105.6		0.00 25.44	PATB	58
ATOM	60	C60 P1	900		2 -10.115	0.00 25.44	PATB	59
ATOM	61	C61 P1	900	-21.751 76.7		0.00 25.44	PATB	60
ATOM	62	C62 P1	900	-13.700 83.9		0.00 24.56	PATB	61
ATOM	63	C63 P1	900	-12.341 104.49		0.00 24.56	PATB	62
ATOM	64	C64 P1	900	-25.334 98.13		0.00 24.56	PATB	63
ATOM	65	C65 P1	900	-22.140 80.80		0.00 24.56	PATB	64
ATOM	66	C66 P1	900	-12.302 88.4		0.00 23.68	PATB	65
ATOM	67	C67 P1	900	0.306 81.3		0.00 23.68	PATB	66

ATOM 68 C68 P1 900 -17.270 99.513 53.377 0.00 23.68 PATB ATOM 69 C69 P1 900 1.244 81.303 18.086 0.50 23.68 PATB 68 **ATOM** 70 C70 P1 900 -12.463 75.404 8,926 0.00 23.68 PATB 69 MOTA 71 C71 P1 900 -7.293 75.517 10.333 0.00 23.68 PATB 70 АТОМ 72 C72 P1 900 -22.039 82.384 34.485 0.00 23.68 PATB 71 ATOM 73 C73 P1 900 -13.293 105.346 5.417 0.00 23.68 PATE 72 ATOM 74 C74 P1 900 -25.687 99.972 0.00 23.68 33.502 PATB 73 ATOM 75 C75 P1 900 -23.297 76.890 46.056 0.50 23.68 PATB 74 ATOM 76 C76 P1 900 -23.649 99.654 32.854 0.00 22.81 PATB 75 **ATOM** 77 C77 P1 900 -18.532 97.347 54.001 0.00 22.81 PATB 76 ATOM 78 C78 P1 900 -12.423 85.774 44.579 0.00 22.81 PATE 77 ATOM C79 P1 79 900 -18.988 101.670 -7.317 0.00 22.81 PATB 78 ATOM 80 C80 P1 900 -11.736 104.151 4.577 0.00 22.81 PATB 79 ATOM 81 C81 P1 900 -0.011 83.413 20.628 0.00 22.81 PATB 80 ATOM 82 C82 P1 900 -8.300 74.283 9.167 0.50 22.81 PATE 81 ATOM 83 C83 P1 900 -5.430 72.323 3.514 0.00 21.93 PATB 82 ATOM -22.543 84 C84 P1 900 75.898 41.032 0.00 21.93 PATB 83 ATOM 85 C85 P1 900 -7.289 79.938 42.189 0.00 21.93 PATB 84 ATOM C86 P1 86 900 -33.227 78.214 37.830 0.00 21.93 PATB 85 ATOM 87 C87 P1 900 -28.789 103.924 2.993 0.00 21.93 PATB 86 ATOM 88 C88 P1 900 -12.507 98.990 -5.6750.00 21.93 PATB 87 ATOM 89 C89 P1 900 -11.600 99.343 21.608 0.00 21.93 PATB 88 ATOM 90 C90 P1 900 -38.131 101.689 38.238 0.00 21.93 PATB 89 ATOM 91 C91 P1 900 -22.873 80.456 35.546 0.00 21.93 PATE 90 ATOM 92 C92 P1 900 1.362 83.804 19.391 0.50 21.05 PATE 91 ATOM 93 C93 P1 900 1.371 82.564 20.040 0.00 21.05 PATB 92 MOTA 94 C94 P1 900 -22.230 101.302 -8.306 0.00 21.05 PATB 93 ATOM 95 C95 P1 900 -21.332 81.872 35.646 0.00 21.05 PATB 94 ATOM 96 C96 P1 900 -13.015 94.546 36.418 0.00 20.18 PATB 95 MOTA 97 C97 P1 900 -0.600 83.346 18.744 0.58 20.18 PATE 96 ATOM 98 C98 P1 -39.276 100.598 900 36.650 0.00 20.18 PATB 97 ATOM 99 C99 P1 900 -40.738 98.891 34.871 0.00 20.18 PATE 98 АТОМ 100 C1 P2 900 -20.222 102.400 -8.239 0.58 20.18 PATB 99 MOTA 101 C2 P2 900 -25.282 90.971 -4.510 0.00 20.18 PATB 100 ATOM 102 C3 P2 900 -29.025 102.897 5.804 0.00 20.18 PATB 101 MOTA 103 C4 P2 900 -13.576 84.196 46.199 0.00 20.18 PATB 102 ATOM 104 C5 P2 900 -14.414 94.975 34.019 0.00 20.18 **PATB 103** ATOM 105 C6 P2 900 -6.019 81.202 20.754 0.00 20.18 PATB 104 ATOM 106 C7 P2 900 -26.059 92.605 -5.257 0.00 19.30 **PATB 105** ATOM 107 -7.424 C8 P2 900 81.592 0.00 19.30 43.311 PATB 106 ATOM 108 C9 P2 900 -12.27875.486 10.276 0.00 19.30 **PATB 107** MOTA 109 C10 P2 900 -28.253 104.013 6.166 0.00 19.30 **PATB 108** MOTA 110 C11 P2 -12.750 85.269 900 45.844 0.50 19.30 **PATB 109** ATOM 111 C12 P2 900 -34.915 100.972 54.544 0.50 19.30 **PATB 110** ATOM 112 C13 P2 900 1.243 82.185 18.698 0.50 19.30 PATB 111 ATOM 113 C14 P2 900 -25.222 77.236 46.667 0.00 19.30 PATB 112 ATOM 114 C15 P2 900 -29.563 102.478 4.582 0.50 19.30 **PATB 113** ATOM 115 C16 P2 900 -24.25176.245 46.852 0.58 19.30 PATB 114 MOTA 116 C17 P2 900 -40.41799.421 36.643 0.00 19.30 **PATB 115** MOTA 117 C18 P2 900 -22.239 75.125 41.870 0.00 19.30 **PATB 116** ATOM 118 C19 P2 -4.844 900 68.641 34.302 0.00 19.30 **PATB 117** MOTA 119 C20 P2 900 -11.809 82.835 46.132 0.00 18.42 PATB 118 ATOM 120 C21 P2 900 -0.433 84.363 0.50 18.42 19.691 **PATB 119** ATOM 121 C22 P2 900 0.182 82.877 18.102 0.58 18.42 **PATB 120** ATOM 122 C23 P2 900 -7.460 74.202 9.884 0.50 18.42 PATB 121 ATOM 123 C24 P2 900 -26.760 94.364 -5.709 0.00 18.42 **PATB 122** ATOM 124 C25 P2 900 -7.549 104.530 15.681 0.00 18.42 **PATB 123** ATOM 125 C26 P2 900 -12.282 98.700 -7.529 0.00 18.42 **PATB 124** ATOM 126 C27 P2 900 -26.656 99.410 33.268 0.00 18.42 **PATB 125** ATOM 127 C28 P2 900 -16.165 104.213 0.00 18.42 45.912 PATE 126 ATOM 128 C29 P2 900 -2.813 83.153 18.338 0.00 18.42 **PATB 127** ATOM 129 C30 P2 900 -34.453 80.437 26.490 0.00 18.42 **PATB 128** ATOM 130 C31 P2 900 -1.727 84.656 19.199 0.50 18.42 **PATB 129** ATOM 131 C32 P2 900 -20.508 103.867 -4.916 0.00 18.42 **PATB 130** ATOM 132 C33 P2 900 -7.054 74.136 8.546 0.00 18.42 PATB 131 ATOM 133 900 C34 P2 -13.747 106.911 0.58 17.54 3.686 **PATB 132** ATOM 134 C35 P2 900 -11.414 85.745 45.048 0.00 17.54 **PATB 133** ATOM 135 C36 P2 900 2.411 81.386 17.317 0.00 17.54 PATB 134 ATOM 136 C37 P2 900 -5.778 78.892 41.104 0.00 17.54 **PATB 135** ATOM 137 C38 P2 900 -14.215 96.356 34.379 0.00 17.54 PATB 136

ATOM	138	C39	P2	900	-10.682	103.851	4.583	0.00 17.54	PATB 137
ATOM	139	C40		900		105.025	6.065	0.00 17.54	PATB 138
ATOM ·	140	C41		900		112.611	44.400	0.00 17.54	PATB 139
ATOM	141	C42	P2	900	-11.206	85.980	20.194	0.00 17.54	PATB 140
ATOM	142	C43	P2	900	-11.898	87.052	45.181	0.50 17.54	PATB 141
ATOM	143	C44	P2	900	-37.388	101.800	36.308	0.00 17.54	PATB 142
ATOM	144	C45	P2	900	-21.871	80.751	34.925	0.00 17.54	PATB 143
ATOM	145	C46	P2	900	-6.710	81.271	19.942	0.00 17.54	PATB 144
ATOM	146	C47	P2	900	-13.008	74.720	9.821	0.00 16.67	PATB 145
ATOM	147	C48	P2	900	-11.994	79.303	17.890	0.00 16.67	PATB 146
ATOM	148	C49	P2	900	-5.336	77.655	40.320	0.00 16.67	PATB 147
ATOM	149	C50	P2	900	-4.097	70.652	3.426	0.00 16.67	PATB 148
ATOM	150	C51	P2	900	-12.734		-11.184	0.58 16.67	PATB 149
ATOM	151	C52		900		103.791	-4.585	0.00 16.67	PATB 150
ATOM	152	C53		900		107.606	57.924	0.00 16.67	PATB 151
ATOM	153	C54		900		106.360	1.856	0.00 16.67	PATB 152
ATOM	154	C55		900		101.131	21.922	0.00 16.67	PATE 153
ATOM	155	C56		900	-21.392	75.949	42.503	0.00 16.67	PATB 154
ATOM	156	C57		900		101.166	35.104	0.00 16.67	PATB 155
ATOM	157	C58		900		102.313	37.447	0.00 16.67	PATB 156
ATOM	158	C59		900	-12.201	91.454	-11.267	0.50 15.79	PATB 157
ATOM ATOM	159	C60		900	-13.049	99.696	-6.251 8.659	0.00 15.79	PATB 158
ATOM	160 161	C61 C62		900 900	-9.573	74.566	32.695	0.00 15.79	PATB 159
ATOM	162	C63		900		100.667	45.260	0.00 15.79 0.00 15.79	PATB 160 PATB 161
ATOM	163	C64		900		102.090	55.382	0.00 15.79	PATB 161
ATOM	164	C65		900	-33.255	76.868	38.926	0.00 15.79	PATE 163
ATOM	165	C66		900	-10.539	98.684	22.206	0.00 15.79	PATB 164
ATOM	166	C67		900		112.617	42.577	0.00 15.79	PATB 165
ATOM	167	C68		900		106.489	2.351	0.50 15.79	PATB 166
ATOM	168	C69		900	-8.866	83.779	20.813	0.00 15.79	PATB 167
MOTA	169	C70	P2	900	-11.474	74.617	9.528	0.50 15.79	PATB 168
ATOM	170	C71	P2	900	-5.328	81.990	20.362	0.00 15.79	PATB 169
ATOM	171	C72	P2	900	-23.942	77.304	47.228	0.58 15.79	PATB 170
ATOM	172	C73	P2	900	-21.586	102.488	-7.935	0.50 15.79	PATB 171
ATOM	173	C74	P2	900	-12.590	74.408	8.709	0.00 15.79	PATB 172
ATOM	174	C75		900		101.970	-9.169	0.00 15.79	PATB 173
ATOM	175	C76		900		102.919	-6.810	0.75 15.79	PATB 174
ATOM	176	C77		900	-33.357	79.641	26.358	0.00 15.79	PATB 175
ATOM	177		P2	900	-0.369	84.015	17.500	0.67 15.79	PATB 176
ATOM	178	C79		900		106.054	4.280	0.58 14.91	PATB 177
ATOM ATOM	179 180	C80		900 900	-34.026	75.990 101.876	39.928 37.140	0.00 14.91 0.50 14.91	PATB 178 PATB 179
ATOM	181	C82		900		102.570	39.317	0.00 14.91	PATB 180
ATOM	182	C83		900	-10.017	99.651	22.277	0.00 14.91	PATB 181
ATOM	183	C84		900	-6.249	80.717	42.711	0.50 14.91	PATB 182
ATOM	184	C85		900	2.832	70.228	8.541	0.00 14.91	PATB 183
ATOM	185	C86		900		104.617	4.209	0.50 14.91	PATB 184
ATOM	186	C87	P2	900	-21.083	77.718	46.088	0.00 14.91	PATB 185
ATOM	187	C88	P2	900	-15.108	103.285	45.250	0.00 14.04	PATB 186
ATOM	188	C89	P2	900	-10.510	98.098	43.775	0.00 14.04	PATB 187
MOTA	189	C90	P2	900		100.670	3.374	0.00 14.04	PATB 188
ATOM	190	C91	P2	900	-3.029	85.108	19.444	0.00 14.04	PATB 189
ATOM	191	C92		900		104.743	-4.382	0.00 14.04	PATB 190
ATOM	192	C93		900		102.504	54.137	0.50 14.04	PATB 191
ATOM	193	C94		900	-6.452	82.299	22.119	0.00 14.04	PATB 192
ATOM	194	C95		900		106.038	1.080	0.00 14.04	PATB 193
ATOM	195	C96		900		107.217	2.171	0.00 14.04	PATB 194
ATOM	196	C97		900	-16.652	88.678	32.474	0.00 14.04	PATB 195
ATOM	197	C98		900	-12.404	83.416	46.801	0.00 14.04	PATB 196 PATB 197
ATOM ATOM	198 199	C99		900 900		107.478 86.155	3.497 21.517	0.00 14.04 0.00 14.04	PATE 197
ATOM	200	C1 C2	P3 P3	900	-8.233 -23.768	98.395	31.692	0.00 14.04	PATE 190
ATOM	201	C3	P3	900		102.215	22.609	0.00 13.16	PATB 200
ATOM	202	C4	P3	900		101.043	22.803	0.00 13.16	PATB 201
ATOM	203	C5	P3	900		106.350	5.593	0.00 13.16	PATB 202
ATOM	204	C6	P3	900	-11.301	87.779	43.586	0.00 13.16	PATB 203
ATOM	205	C7	P3	900	-5.343	70.391	2.844	0.58 13.16	PATB 204
ATOM	206	C8	Р3	900	-10.286	79.373	19.813	0.00 13.16	PATB 205
ATOM	207	C9	PЗ	900	-4.609	68.666	35.742	0.00 13.16	PATB 206

ATOM	208	C10 P3	900	-24.939 13	11 640	42.063	0 00 13 16	DD 007
ATOM	209	C11 P3	900	-18.245 10			0.00 13.16	PATB 207
ATOM	210	C12 P3	900			47.065	0.00 13.16	PATB 208
ATOM					94.884	37.663	0.00 13.16	PATB 209
	211	C13 P3	900		84.303	46.078	0.58 13.16	PATB 210
ATOM	212	C14 P3	900		82.755	19.434	0.00 13.16	PATB 211
MOTA	213	C15 P3	900	-40.296 10	00.451	35.703	0.50 13.16	PATB 212
ATOM	214	C16 P3	900	-11.413 8	34.948	20.563	0.00 13.16	PATB 213
ATOM	215	C17 P3	900		95.996	36.931	0.00 13.16	PATB 214
ATOM	216	C18 P3	900		78.900	17.074	0.00 13.16	PATB 214
ATOM	217	C19 P3	900		34.204			
ATOM	218	C20 P3	900			18.299	0.67 13.16	PATB 216
ATOM	219	C21 P3		-31.460 10		58.512	0.00 13.16	PATB 217
ATOM	220		900	-11.693 10		4.792	0.50 13.16	PATB 218
		C22 P3	900	-30.027 10		4.129	0.50 13.16	PATB 219
ATOM	221	C23 P3	900		76.990	36.782	0.00 13.16	PATB 220
ATOM	222	C24 P3	900	-13.801	92.903	-12.076	0.75 13.16	PATB 221
ATOM	223	C25 P3	900	-1.024 8	35.163	20.677	0.00 13.16	PATB 222
MOTA	224	C26 P3	900	-26.007	91.602	-6.006	0.00 13.16	PATB 223
ATOM	225	C27 P3	900		77.961	46.956	0.58 13.16	PATB 224
ATOM	226	C28 P3	900		31.464	21.540	0.00 13.16	
ATOM	227	C29 P3	900			-10.759		PATB 225
ATOM	228	C30 P3	900				0.00 12.28	PATB 226
ATOM	229	C31 P3			98.598	45.036	0.00 12.28	PATB 227
ATOM	230		900		33.880	18.036	0.58 12.28	PATB 228
		C32 P3	900	-29.242 10		5.182	0.50 12.28	PATB 229
ATOM	231	C33 P3	900		78.980	-2.148	0.00 12.28	PATB 230
ATOM	232	C34 P3 ·		-27.885	99.536	32.785	0.00 12.28	PATB 231
ATOM	233	C35 P3	900		76.835	47.572	0.00 12.28	PATB 232
ATOM	234	C36 P3	900	-29.916 10	03.237	3.460	0.58 12.28	PATB 233
ATOM	235	C37 P3	900	-8.135 8	32.607	21.040	0.50 12.28	PATB 234
ATOM	236	C38 P3	900	-21.580 10		-6.287	0.00 12.28	PATB 235
ATOM	237	C39 P3	900	-40.216	9.691	34.530	0.00 12.28	PATB 236
ATOM	238	C40 P3	900	-39.027 10	0.649	34.363	0.00 12.28	PATB 237
ATOM	239	C41 P3	900		37.079	34.280	0.00 12.28	PATB 238
ATOM	240	C42 P3	900	-21.763 10		56.987	0.00 12.28	PATB 239
ATOM	241	C43 P3	900	•	73.004	10.279	0.67 12.28	PATB 240
MOTA	242	C44 P3	900	-7.823 10		13.601	0.00 12.28	PATE 241
MOTA	243	C45 P3	900		98.993	35.388	0.58 12.28	PATB 241
MOTA	244	C46 P3	900		32.468	20.661	0.50 12.28	
ATOM	245	C47 P3	900	-16.509 10		46.361	0.58 12.28	PATB 243
ATOM	246	C48 P3	900		33.538			PATB 244
ATOM	247	C49 P3	900		90.668	47.001	0.00 12.28	PATB 245
ATOM	248	C50 P3	900		8.479	-4.804	0.00 12.28	PATB 246
ATOM	249	C51 P3	900	-11.266 10		18.300	0.50 12.28	PATB 247
ATOM	250	C52 P3				22.772	0.50 12.28	PATB 248
ATOM	251	C52 P3	900	-24.643 11		43.420	0.50 12.28	PATB 249
ATOM		C53 P3	900		9.377	7.844	0.00 11.40	PATB 250
	252	-	900		9.914	31.812	0.00 11.40	PATB 251
ATOM	253	C55 P3	900		9.132	32.022	0.50 11.40	PATB 252
ATOM	254	C56 P3	900	-13.131 10		-7.413	0.00 11.40	PATB 253
ATOM	255	C57 P3	900		30.625	-3.209	0.00 11.40	PATB 254
ATOM	256	C58 P3	900	-23.859 11	.0.784	54.907	0.00 11.40	PATB 255
ATOM	257	C59 P3	900	-12.071 10	0.540	-6.347	0.00 11.40	PATB 256
ATOM	258	C60 P3	900	-8.546 8	31.305	20.732	0.00 11.40	PATB 257
ATOM	259	C61 P3	900	-19.123 10	3.084	-5.441	0.00 11.40	PATB 258
ATOM	260	C62 P3	900	-24.965 9	9.462	32.417	0.50 11.40	PATB 259
ATOM	261	C63 P3	900	-9.950 8	8.978	37.937	0.00 11.40	PATB 260
ATOM	262	C64 P3	900		8.241	26.626	0.00 11.40	PATB 261
ATOM	263	C65 P3	900		0.757	9.755	0.00 11.40	PATB 262
ATOM	264	C66 P3	900		5.010	18.460	0.58 11.40	PATB 263
ATOM	265	C67 P3	900	-6.895 10		15.000	0.00 11.40	PATB 264
ATOM	266	C68 P3	900	-26.371 10				
ATOM	267	C69 P3	900		5.876	32.380	0.58 11.40	PATB 265
ATOM	268	C70 P3	900			39.563	0.00 11.40	PATB 266
ATOM	269	C71 P3	900		6.216	46.301	0.58 11.40	PATB 267
ATOM	270	C72 P3	900		1.220	3.972	0.00 11.40	PATB 268
ATOM	271	C72 P3			5.954	35.532	0.58 11.40	PATB 269
ATOM	272		900		7.853	17.053	0.00 10.53	PATB 270
ATOM		C74 P3	900		2.577	18.052	0.58 10.53	PATB 271
	273	C75 P3	900	-25.270 10		33.181	0.00 10.53	PATB 272
ATOM	274	C76 P3	900		3.544	18.016	0.67 10.53	PATB 273
ATOM	275	C77 P3	900	-16.265 10		47.331	0.00 10.53	PATB 274
ATOM	276	C78 P3	900	-21.861 10		55.589	0.00 10.53	PATB 275
ATOM	277	C79 P3	900	-12.567 8	4.797	46.961	0.50 10.53	PATB 276

ATOM	278	C80 1	P3 900	-9.696	84.555	21.631	0.67	10.53	PATB	277	
ATOM	279	C81 1	900	-20.660	103.262	-7.225	0.67	10.53	PATB	278	
MOTA	280	C82 1	P3 900	-0.118	84.950	21.214	0.00	10.53	PATB		
MOTA	281	C83 I		-6.323		2.992		10.53	PATB		
ATOM	282	C84 1		-26.365	-	31.357		10.53	PATB		
MOTA	283	C85 1		-8.537		10.195		10.53	PATB		
ATOM	284	C86 1		-3.633		1.836		10.53	PATB		
ATOM	285	C87 1		-4.787		37.006		10.53	PATB		
ATOM ATOM	286 287	C88 1		-6.438 -17.958		43.795 -4.245		10.53	PATB PATB		
ATOM	288	C90 1		-17.544		-3.844		10.53	PATB		
ATOM	289	C91		-9.928		20.961		10.53	PATB		
ATOM	290	C92		-33.828		36.890		10.53	PATB		
ATOM	291	C93			108.529	59.528		10.53	PATB		
ATOM	292	C94 1			104.552	16.534	0.00	10.53	PATB		
ATOM	293	C95 1	P3 900	-11.531	88.240	46.042	0.00	10.53	PATB	292	
MOTA	294	C96 1	P3 900	-16.142	81.382	-4.199	0.00	10.53	PATB	293	
ATOM	295	C97 1	P3 900	-13.265	92.075	48.840	0.00	10.53	PATB	294	
MOTA	296	C98 !		-10.516		21.369	0.75	9.65	PATB		
MOTA	297		P3 900		103.383	38.143	0.00	9.65	PATB		
ATOM	298		P4 900	-13.026		34.678	0.50	9.65	PATB		
ATOM	299		P4 900		104.133	15.407	0.50	9.65	PATB		
ATOM	300		P4 900	-33.511		26.338	0.00	9.65	PATB PATB		
ATOM	301		P4 900 P4 900	-28.336 -7.649	83.891	4.515	0.00	9.65 9.65	PATE		
ATOM ATOM	302 303		P4 900 P4 900	2.153		20.766	0.00	9.65	PATB		
ATOM	304		P4 900		106.590	3.031	0.67	9.65	PATB		
ATOM	305		P4 900	-2.569		17.480	0.00	9.65	PATB		
ATOM	306		P4 900		105.003	3.806	0.58	9.65	PATB		
ATOM	307	C10			103.635	46.823	0.00	9.65	PATB		
ATOM	308	C11	P4 900	-33.104	79.701	25.196	0.00	9.65	PATB	307	
MOTA	309	C12	P4 900	-6.799	105.211	14.715	0.58	9.65	PATB		
ATOM	310	C13			101.369	35.493	0.50	9.65	PATB		
ATOM	311	C14		-10.040		21.487	0.67	9.65	PATB		
ATOM	312	C15			103.672	4.320	0.58	9.65	PATB		
ATOM	313	C16			3 102.961	16.165	0.00	9.65	PATB		
ATOM	314	C17			3 104.978	6.084	0.00	9.65 9.65	PATB PATB		
ATOM ATOM	315 316	C18 C19		-25.582	3 103.746 2 88.110	5.045 18.665	0.00	8.77	PATB		
ATOM	317	C20		-41.886		34.787	0.50	8.77	PATB		
ATOM	318	C21		-11.646		36.266	0.50	8.77	PATB		
ATOM	319		P4 900		105.818	15.947	0.50	8.77	PATB	318	
ATOM	320		P4 900	~9.9 <del>3</del> 0	84.275	45.833	0.00	8.77	PATB	319	
ATOM	321	C24	P4 900	-22.158	109.332	58.549	0.50	8.77	PATB		
ATOM	322	C25			9 101.807	36.150	0.50	8.77	PATB		
ATOM	323	C26		-7.672		9.144	0.58	8.77	PATB		
ATOM	324	C27			104.255	5.893	0.00	8.77	PATB		
MOTA	325	C28		-10.361	. 80.848 76.535	20.395 41.345	0.00	8.77	PATB PATB		
ATOM	326 327	C29 1			101.946	53.636	0.00 0.67	8.77 8.77	PATB		
ATOM ATOM	328	C31			101.540	54.935	0.58	8.77	PATB		
ATOM	329	C32		-11.526		-11.858	0.00	8.77	PATB		
ATOM	330	C33			107.834	58.221	0.00	8.77	PATB		
ATOM	331	C34		-42.106		34.477	0.00	8.77	PATB	330	
MOTA	332	C35	P4 900	-10.995	101.320	23.210	0.50	7.89	PATB	331	
ATOM	333	C36	P4 900	-4.992	69.774	1.637	0.67	7.89	PATB		
MOTA	334	C37		-11.578		24.110	0.67	7.89	PATB		
MOTA	335	C38		-10.328		-12.100	0.00	7.89	PATB		
MOTA	336	C39		-9.147		22.408	0.75	7.89	PATB		
MOTA	337	C40		-13.117		34.507	0.00	7.89	PATB PATB		
ATOM	338 339	C41 C42		-7.778 -9.678		7.523 44.664	0.00	7.89 7.89	PATB		
MOTA MOTA	340	C42		-9.675 -6.585	5 103.959	14.062	0.58	7.89	PATE		
ATOM	341	C43		-4.155		36.010	0.00	7.89	PATB		
ATOM	342	C45		-34.528		26.547	0.00	7.89	PATB		
ATOM	343	C46		-7.432		23.356	0.00	7.89	PATB		
ATOM	344	C47			103.027	23.648	0.67	7.89	PATB	343	
MOTA	345	C48		-6.259	72.031	4.230	0.00	7.89	PATB		
MOTA	346	C49		-22.470	102.482	-9.020	0.58	7.89	PATB		
MOTA	347	C50	P4 900	-16.341	97.493	23.608	0.00	7.89	PATB	346	

ATOM	348	C51 P	4 900	-9.022	88.480	39.981	0.00	7.89	PATB 347
ATOM	349	C52 P	4 900			34.549	0.50	7.89	PATB 348
ATOM	350	C53 P				47.452	0.00	7.89	PATB 349
ATOM	351	C54 P				8.223	0.67		
ATOM	352	C55 P				31.480	0.00	7.89	PATB 350
ATOM	353	C56 P			104.827			7.02	PATB 351
ATOM	354	C57 P				-5.897	0.58	7.02	PATB 352
ATOM	355	C58 P			83.170	21.962	0.50	7.02	PATB 353
						31.460	0.58	7.02	PATB 354
ATOM	356	C59 P			106.557	45.835	0.75	7.02	PATB 355
ATOM	357	C60 P				21.771	0.75	7.02	PATB 356
MOTA	358	C61 P			106.045	3.489	0.67	7.02	PATB 357
ATOM	359	C62 P			73.583	7.929	0.00	7.02	PATB 358
ATOM	360	C63 P		-4.167	67.229	35.055	0.00	7.02	PATB 359
ATOM	361	C64 P		-8.577	87.287	38.852	0.00	7.02	PATB 360
ATOM	362	C65 P		-15.051	97.745	23.948	0.00	7.02	PATB 361
ATOM	363	C66 P	4 900	-10.214	104.188	22.951	0.00	7.02	PATB 362
ATOM	364	C67 P	4 900	-20.875	108.444	55.444	0.00	7.02	PATB 363
MOTA	365	C68 P	4 900	-41.564	100.017	36.108	0.58	7.02	PATB 364
ATOM	366	C69 P	4 900	-27.157	93.053	-6.001	0.50	7.02	PATB 365
ATOM	367	C70 P	4 900		101.827	23.941	0.58	7.02	PATB 366
ATOM	368	C71 P		-33.146	76.116	37.751	0.50	7.02	PATE 367
ATOM	369	C72 P		-10.301	99.356	44.097	0.00	6.14	PATE 368
ATOM	370	C73 P			108.027	3.238	0.58	6.14	
ATOM	371	C74 P			104.423	-5.666	0.50		PATB 369
ATOM	372	C75 P			110.189			6.14	PATB 370
ATOM	373	C76 P		-12.071		57.630	0.00	6.14	PATB 371
ATOM	374	C77 P			79.163	19.280	0.58	6.14	PATB 372
ATOM	375	C78 P		-15.803	89.268	31.530	0.50	6.14	PATB 373
ATOM	376	C79 P		-6.466	70.395	2.008	0.75	6.14	PATB 374
				-1.436	86.005	18.966	0.00	6.14	PATB 375
MOTA	377	C80 P		-10.777	73.463	9.904	0.75	6.14	PATB 376
ATOM	378	C81 P			109.584	59.368	0.00	6.14	PATB 377
ATOM	379	C82 P			108.828	59.748	0.00	6.14	PATB 378
ATOM	380	C83 P		-11.809	92.480	49.124	0.00	6.14	PATB 379
ATOM	381	C84 P			103.844	-7.962	0.75	6.14	PATB 380
ATOM	382	C85 P		-8.932	73.370	8.315	0.58	6.14	PATB 381
ATOM	383	C86 P		3.595	69.112	8.176	0.67	6.14	PATB 382
ATOM	384	C87 P	4 900	-12.068	94.693	34.935	0.67	6.14	PATB 383
ATOM	385	C88 P	4 900	-15.598	99.190	24.055	0.00	6.14	PATB 384
ATOM	386	C89 P	4 900	-8.101	107.569	15.292	0.75	6.14	PATB 385
ATOM	387	C90 P	4 900	-10.709	85.377	46.208	0.67	6.14	PATB 386
ATOM	388	C91 P	4 900	-9.628	97.930	42.940	0.00	6.14	PATB 387
AŢĢM	389	C92 P	4 900	-9.410	73.559	9.618	0.67	6.14	PATB 388
 ATOM	390	C93 P	900	-11.845	85.495	21.777	0.83	6.14	PATE 389
ATOM	391	C94 P	4 900		100.425	32.260	0.50	6.14	PATB 390
ATOM	392	C95 P	4 900		101.829	5.455	0.00	6.14	PATB 391
ATOM	393	C96 P		-32.447	78.702	25.485	0.00	6.14	PATB 392
ATOM	394	C97 P			110.191	55.675	0.00	6.14	PATB 393
ATOM	395	C98 P		-9.943	97.347	45.968	0.00	6.14	PATB 394
ATOM	396	C99 P			101.950	34.084	0.67	6.14	
ATOM	397	C1 P			110.185	59.590	0.50	6.14	PATB 395
ATOM	398	C2 P			100.239	23.769			PATB 396
ATOM	399	C3 P		-14.265		23.769	0.58	6.14	PATB 397
ATOM	400	C4 P.		0.259			0.00	6.14	PATB 398
ATOM	401	C5 P.				17.376	0.75	5.26	PATB 399
ATOM	402			-13.227	88.590	34.391	0.00	5.26	PATB 400
ATOM	403			-10.557	87.439	45.072	0.00	5.26	PATB 401
ATOM					107.270	0.837	0.58	5.26	PATB 402
ATOM	404	C8 P		-12.440	77.926	19.823	0.75	5.26	PATB 403
	405	C9 P.		-41.509	99.125	33.561	0.00	5.26	PATB 404
ATOM	406	C10 P		-11.420	73.518	8.662	0.67	5.26	PATB 405
MOTA	407	C11 P			103.556	-7.760	0.83	5.26	PATB 406
ATOM	408	C12 P		-11.466	80.006	20.220	0.50	5.26	PATB 407
ATOM	409	C13 P		-11.339	78.617	20.342	0.67	5.26	PATB 408
ATOM	410	C14 P		-27.250	99.742	31.554	0.67	5.26	PATB 409
ATOM	411	C15 P		-15.843	79.793	-3.925	0.67	5.26	PATB 410
ATOM	412	C16 P			100.778	23.419	0.75	5.26	PATB 411
ATOM	413	C17 P	5 900	-1.490	85.666	17.609	0.67	5.26	PATB 412
ATOM	414	C18 P	5 900	-12.727	92.069		0.67	5.26	PATB 413
ATOM	415	C19 P			103.094	36.632	0.58	5.26	PATB 414
ATOM	416	C20 P		-9.931	84.552	47.205	0.67	5.26	PATB 415
ATOM	417	C21 P		-8.311	84.763	21.641	0.50	5.26	PATB 416

ATOM	418	C22 P5	900	-11.697 90.456	-12.110	0.58	5.26	PATB 417
ATOM	419	C23 P5	900	-40.355 101.083		0.58	5.26	PATB 418
ATOM	420	C24 P5	900	-14.396 81.622	31.561	0.00	5.26	PATB 419
ATOM	421	C25 P5	900	-35.633 103.110	55.360	0.00	5.26	PATB 420
ATOM	422	C26 P5	900	-27.807 94.134		0.58	5.26	PATB 421
ATOM	423	C27 P5	900	-43.009 98.228		0.00	5.26	PATB 422
ATOM	424	C28 P5	900	-22.534 109.021		0.00	5.26	PATB 423
ATOM	425	C29 P5	900	-14.572 107.626		0.50	5.26	PATB 424
ATOM	426	C30 P5	900	-6.452 82.252		0.00	5.26	PATB 425
ATOM	427	C31 P5	900	-14.390 85.246		0.00	5.26	PATB 426
ATOM	428	C32 P5	900	1.367 69.512		0.00	5.26	PATB 427 PATB 428
MOTA	429	C33 P5	900	-0.091 69.192 -14.289 98.829		0.00 0.50	5.26 5.26	PATE 429
MOTA MOTA	430 431	C34 P5 C35 P5	900 900	-14.289 98.829 -21.027 103.336		0.67	4.39	PATE 429
ATOM	432	C36 P5	900	4.208 70.204		0.50	4.39	PATB 431
ATOM	433	C37 P5	900	-33.722 75.584		0.50	4.39	PATB 432
ATOM	434	C38 P5	900	-6.257 102.844		0.00	4.39	PATE 433
ATOM	435	C39 P5	900	2.520 83.860		0.67	4.39	PATB 434
ATOM	436	C40 P5	900	-12.988 91.080		0.00	4.39	PATB 435
ATOM	437	C41 P5	900	-26.849 87.843		0.58	4.39	PATB 436
ATOM	438	C42 P5	900	-32.317 110.017	59.471	0.58	4.39	PATB 437
ATOM	439	C43 P5	900	-14.602 100.111	23.929	0.00	4.39	PATB 438
ATOM	440	C44 P5	900	-31.425 110.839	58.772	0.50	4.39	PATB 439
ATOM	441	C45 P5	900	-8.848 83.59 <b>7</b>		0.58	4.39	PATB 440
ATOM	442	C46 P5	90 <b>0</b>	-8.769 88.653		0.50	4.39	PATB 441
ATOM	443	C47 P5	900	-11.799 106.902		0.67	4.39	PATB 442
ATOM	444	C48 P5	900	-29.694 110.839		0.00	4.39	PATB 443
ATOM	445	C49 P5	900	-5.400 67.361		0.50	4.39	PATB 444
ATOM	446	C50 P5	900	-34.348 78.536		0.50	4.39 4.39	PATB 445 PATB 446
ATOM	447 448	C51 P5 C52 P5	900 900	-9.399 98.011 -34.349 76.143		0.50 0.00	4.39	PATE 447
ATOM ATOM	449	C52 P5	900	-27.843 92.042		0.00	4.39	PATB 447
ATOM	450	C54 P5	900	-20.931 104.517		0.67	4.39	PATB 449
ATOM	451	C55 P5	900	-17.130 81.631		0.50	4.39	PATB 450
ATOM	452	C56 P5	900	-11.560 97.292		0.00	4.39	PATB 451
ATOM	453	C57 P5	900	-23.908 112.817		0.67	4.39	PATB 452
ATOM	454	C58 P5	900	-12.619 106.356	1.569	0.75	4.39	PATB 453
ATOM	455	C59 P5	900	-7.688 106.955	16.480	0.00	4.39	PATB 454
ATOM	456	C60 P5	900	-11.279 84.778	47.510	0.58	4.39	PATB 455
MOTA	457	C61 P5	900	-7.466 106.441		0.67	4.39	PATB 456
ATOM	458	C62 P5	900	-15.605 104.568		0.00	4.39	PATB 457
ATOM	459	C63_P5_	900 _	-4.684 66.486		0.50	4.39	PATB 458
ATOM	460	C64 P5	900	-12.814 80.184		0.00	4.39	PATB 459
ATOM	461	C65 P5	900	-4.951 66.096		0.58	3.51	PATB 460
MOTA	462	C66 P5	900	-10.181 104.173		0.83	3.51	PATB 461 PATB 462
ATOM	463	C67 P5	900	-15.586 90.646		0.00 0.75	3.51 3.51	PATE 463
ATOM ATOM	464 465	C68 P5 C69 P5	900 900	-11.655 102.233 -16.982 80.318		0.75	3.51	PATE 464
ATOM	465	C70 P5	900	-22.071 105.170		0.00	3.51	PATB 465
ATOM	467	C71 P5	900	-14.048 95.933		0.00	3.51	PATB 466
ATOM	468	C72 P5	900	-42.721 99.545		0.50	3.51	PATB 467
ATOM	469	C73 P5	900	-15.210 105.009		0.50	3.51	PATB 468
ATOM	470	C74 P5	900	-10.462 99.173	23.515	0.58	3.51	PATB 469
ATOM	471	C75 P5	900	-5.644 103.287	14.461	0.58	3.51	PATB 470
MOTA	472	C76 P5	900	-13.589 91.454		0.50	3.51	PATB 471
ATOM	473	C77 P5	900	-36.651 102.820		0.67	3.51	PATB 472
MOTA	474	C78 P5	900	-8.384 88.851		0.00	3.51	PATB 473
MOTA	475	C79 P5	900	-34.903 75.147		0.58	3.51	PATB 474
ATOM	476	C80 P5	900	-27.190 90.891		0.50	3.51	PATB 475
ATOM	477	C81 P5	900	-15.134 80.557		0.00	3.51 3.51	PATB 476 PATB 477
ATOM	478	C82 P5	900	-30.322 103.280		0.58 0.83	3.51	PATE 477
ATOM ATOM	479 480	C83 P5 C84 P5	900 900	-22.464 110.770 -8.748 95.719		0.83	3.51	PATE 479
ATOM	481	C85 P5	900	-8.748 95.715 -13.350 78.725		0.75	3.51	PATE 480
ATOM	482	C86 P5	900	-5.013 77.863		0.50	3.51	PATB 481
ATOM	483	C87 P5	900	-24.912 113.169		0.58	3.51	PATB 482
ATOM	484	C88 P5	900	-15.530 105.701		0.92	3.51	PATB 483
ATOM	485	C89 P5	900	-20.870 109.216		0.58	3.51	PATB 484
ATOM	486	C90 P5	900	-4.006 67.476		0.00	3.51	PATB 485
ATOM	487	C91 P5	900	-14.448 79.357		0.50	3.51	PATB 486

	ATOM	488	C92 E	900	-4.949	103.626	15.628	0.67	3.51	PATB 487
	MOTA	489	C93 E	900		111.837	58.553	0.00	3.51	PATB 488
	ATOM	490	C94 E	900	-11.047	86.950	46.288	0.58	2.63	PATB 489
	ATOM	491	C95 E		-12.705	107.738	4.121	0.67	2.63	PATB 490
	ATOM	492	C96 E		-5.828	105.084	13.715	0.67	2.63	PATB 491
	ATOM	493	C97 E		2.548	83.693	17.215	0.75	2.63	PATB 492
	ATOM	494	C98 E		1.567	85.090	17.846	0.00	2.63	PATB 493
	ATOM	495	C99 E			102.669	4.452	0.58	2.63	PATB 494
	ATOM	496		900			22.702	0.83	2.63	PATB 495
	ATOM	497		900		104.998	3.145	0.58	2.63	PATB 496
	ATOM	498		900		102.227	3.129	0.67	2.63	PATB 497
	ATOM ATOM	499		900			20.118	0.00	2.63	PATB 498
	ATOM	500 501		900 96 900			2.359	0.83	2.63	PATB 499
	ATOM	502		e 900 96 900			24.894	0.00	2.63	PATB 500
	ATOM	503		26 900			36.220	0.67	2.63	PATB 501
	ATOM	504		26 900			42.986 20.621	0.58	2.63	PATB 502
	ATOM	505	C10 E			109.217	60.538	0.83	2.63 2.63	PATB 503 PATB 504
	ATOM	506	C11 F			104.693	12.741	0.00	2.63	PATE 504
	MOTA	507	C12 F			87.815	40.234	0.00	2.63	PATE 505
	ATOM	508	C13 F			100.667	3.498	0.58	2.63	PATE 507
	ATOM	509	C14 F				31.107	0.58	2.63	PATE 508
	ATOM	510	C15 F	900		104.964	4.792	0.50	2.63	PATB 509
	ATOM	511	C16 F	900	-12.867	83.254	21.098	0.00	2.63	PATB 510
	ATOM	512	C17 F	900	-11.409	104.148	23.679	0.75	2.63	PATB 511
	ATOM	513	C18 F	900	-7.921	72.106	10.164	0.75	2.63	PATB 512
	MOTA	514	C19 F	900	-12.306	73.511	9.746	0.58	2.63	PATB 513
	ATOM	515	C20 E			106.551	47.191	0.67	2.63	PATB 514
	ATOM	516	C21 F				33.445	0.00	2.63	PATB 515
	ATOM	517	C22 F		1.148		9.460	0.50	2.63	PATB 516
	ATOM	518	C23 F			103.750	-8.260	0.75	1.75	PATB 517
	ATOM	519	C24 F		-13.312		31.215	0.00	1.75	PATB 518
	MOTA	520	C25 F			110.003	57.365	0.67	1.75	PATB 519
	ATOM ATOM	521 522	C26 F		-12.451	84.251	21.989	0.92	1.75	PATB 520
	ATOM	523	C27 F		-9.294 -8.205	72.404	11.005	0.00	1.75	PATB 521
	ATOM	524	C29 F		2.707	84.534 69.900	23.018 10.659	1.00	1.75	PATB 522
	ATOM	525	C30 F			106.756	46.215	0.67 0.83	1.75 1.75	PATB 523 PATB 524
	ATOM	526	C31 F		-27.553		-6.679	0.58	1.75	PATB 525
	ATOM	527	C32 F		-7.510		39.005	0.58	1.75	PATB 526
	MOTA	528	C33 P	900	-16.295		-2.762	0.00	1.75	PATB 527
	MOTA	529	C34 F	900	-16.411	89.514	30.293	0.67	1.75	PATB 528
**	ATOM	530	C35 E	900	-17.335	78.077	-2.721	0.50	1.75	PATB 529
	ATOM	531	C36 F	900	-5.461	81.042	44.193	0.00	1.75	PATB 530
	MOTA	532	C37 F		-0.071	69.215	10.137	0.00	1.75	PATB 531
	MOTA	533	C38 P		-8.673	96.879	45.612	0.50	1.75	PATB 532
	MOTA	534	C39 P		-8.002	87.889	37.727	0.67	1.75	PATB 533
	MOTA	535	C40 F			113.009	41.773	0.67	1.75	PATB 534
	ATOM	536	C41 P		-5.283		0.270	0.83	1.75	PATB 535
	ATOM ATOM	537	C42 P		-14.981		25.545	0.58	1.75	PATB 536
	ATOM	538 539	C43 P			108.202	54.751	0.00	1.75	PATB 537
	ATOM	540	C44 P			108.001	0.761	0.00	1.75	PATB 538
	ATOM	541	C46 P			101.182	35.342 -7.033	0.67	1.75 1.75	PATB 539
	ATOM	542	C47 P			104.155	-5.182	0.75 0.00	1.75	PATB 540 PATB 541
	ATOM	543	C48 P			104.087	45.706	0.00	1.75	PATB 542
	ATOM	544	C49 P			109.208	56.615	0.50	1.75	PATB 543
										PATB 544
	MOTA	545	C50 P	900	-12.311	84.056	48.121	0.00	1.75	
					-12.311 -25.115		48.121 31.191	0.00	1.75 1.75	PATB 545
	MOTA	545	C50 P C51 P C52 P	900 96 900		98.419				
	ATOM ATOM ATOM ATOM	545 546 547 548	C50 P C51 P C52 P C53 P	900 96 900 96	-25.115	98.419 72.861	31.191	0.00	1.75	PATB 545
	ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549	C50 P C51 P C52 P C53 P C54 P	900 96 900 96 900 96 900	-25.115 -10.184 -5.902	98.419 72.861	31.191 8.682	0.00 0.75	1.75 1.75	PATB 545 PATB 546
	ATOM ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549 550	C50 P C51 P C52 P C53 P C54 P C55 P	26 900 26 900 26 900 26 900 26 900	-25.115 -10.184 -5.902 -16.139 -12.792	98.419 72.861 66.998 78.386 107.489	31.191 8.682 35.662	0.00 0.75 0.00	1.75 1.75 0.88	PATB 545 PATB 546 PATB 547 PATB 548 PATB 549
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549 550 551	C50 P C51 P C52 P C53 P C54 P C55 P	26 900 26 900 26 900 26 900 26 900 26 900	-25.115 -10.184 -5.902 -16.139 -12.792 -13.650	98.419 72.861 66.998 78.386 107.489 108.716	31.191 8.682 35.662 -3.382 2.373 4.453	0.00 0.75 0.00 0.58	1.75 1.75 0.88 0.88	PATB 545 PATB 546 PATB 547 PATB 548
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549 550 551 552	C50 P C51 P C52 P C53 P C54 P C55 P C56 P C57 P	26 900 26 900 26 900 26 900 26 900 26 900 26 900	-25.115 -10.184 -5.902 -16.139 -12.792 -13.650 -13.055	98.419 72.861 66.998 78.386 107.489 108.716 85.239	31.191 8.682 35.662 -3.382 2.373 4.453 48.196	0.00 0.75 0.00 0.58 0.67 0.00 0.58	1.75 1.75 0.88 0.88 0.88 0.88	PATB 545 PATB 546 PATB 547 PATB 548 PATB 549 PATB 550 PATB 551
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549 550 551 552 553	C50 P C51 P C52 P C53 P C54 P C55 P C56 P C57 P C58 P	26 900 26 900 26 900 26 900 26 900 26 900 26 900	-25.115 -10.184 -5.902 -16.139 -12.792 -13.650 -13.055 -28.857	98.419 72.861 66.998 78.386 107.489 108.716 85.239 106.043	31.191 8.682 35.662 -3.382 2.373 4.453 48.196 2.699	0.00 0.75 0.00 0.58 0.67 0.00 0.58 0.00	1.75 1.75 0.88 0.88 0.88 0.88 0.88	PATB 545 PATB 546 PATB 547 PATB 548 PATB 549 PATB 550 PATB 551 PATB 552
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549 550 551 552 553 554	C50 PC51 PC52 PC53 PC54 PC55 PC56 PC57 PC58 PC59 PC59 PC59	26 900 26 900 26 900 26 900 26 900 26 900 26 900 26 900	-25.115 -10.184 -5.902 -16.139 -12.792 -13.650 -13.055 -28.857 -9.471	98.419 72.861 66.998 78.386 107.489 108.716 85.239 106.043 98.661	31.191 8.682 35.662 -3.382 2.373 4.453 48.196 2.699 45.860	0.00 0.75 0.00 0.58 0.67 0.00 0.58 0.00	1.75 1.75 0.88 0.88 0.88 0.88 0.88 0.88	PATB 545 PATB 546 PATB 547 PATB 549 PATB 550 PATB 551 PATB 552 PATB 553
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549 550 551 552 553 554 555	C50 PC51 PC52 PC53 PC54 PC55 PC56 PC57 PC58 PC59 PC60 PC60 PC60 PC60 PC60 PC60 PC60 PC60	26 900 26 900 26 900 26 900 26 900 26 900 26 900 26 900 26 900	-25.115 -10.184 -5.902 -16.139 -12.792 -13.650 -13.055 -28.857 -9.471	98.419 72.861 66.998 78.386 107.489 108.716 85.239 106.043 98.661 80.802	31.191 8.682 35.662 -3.382 2.373 4.453 48.196 2.699 45.860 -5.469	0.00 0.75 0.00 0.58 0.67 0.00 0.58 0.00 0.58	1.75 1.75 0.88 0.88 0.88 0.88 0.88 0.88	PATB 545 PATB 546 PATB 547 PATB 549 PATB 550 PATB 551 PATB 552 PATB 553 PATB 554
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	545 546 547 548 549 550 551 552 553 554	C50 PC51 PC52 PC53 PC54 PC55 PC56 PC57 PC58 PC59 PC59 PC59	96 900 96 900 96 900 96 900 96 900 96 900 96 900 96 900 96 900	-25.115 -10.184 -5.902 -16.139 -12.792 -13.650 -13.055 -28.857 -9.471	98.419 72.861 66.998 78.386 107.489 108.716 85.239 106.043 98.661 80.802 77.226	31.191 8.682 35.662 -3.382 2.373 4.453 48.196 2.699 45.860	0.00 0.75 0.00 0.58 0.67 0.00 0.58 0.00	1.75 1.75 0.88 0.88 0.88 0.88 0.88 0.88	PATB 545 PATB 546 PATB 547 PATB 549 PATB 550 PATB 551 PATB 552 PATB 553

ATOM	558	C63 E	6 900	-11.088 83.04	8 22.337	0.83	0.88	PATB 557
MOTA	559	C64 F	6 900	-33.825 79.60	4 24.503	0.00	0.88	PATB 558
ATOM	560	C65 E	6 900	-42.412 99.00	9 32.760	0.00	0.88	PATB 559
ATOM	561	C66 F	6 900	-15.776 105.80	6 47.559	0.58	0.88	PATB 560
ATOM	562	C67 F	6 900	3.645 83.02	8 18.561	0.83	0.88	PATB 561
ATOM	563	C68 F	6 900	-37.972 102.54	8 35.279	0.58	0.88	PATB 562
ATOM	564	C69 E	6 900	-5.053 104.77	9 14.840	0.75	0.88	PATB 563
ATOM	565	C70 E	6 900	-17.024 79.27	2 -3.382	0.58	0.88	PATB 564
ATOM	566	C71 F	6 900	-30.127 105.04	1 4.589	0.67	0.88	PATB 565
ATOM	567	C72 F	6 900	3.344 69.37	6 9.528	0.58	0.88	PATB 566
ATOM	568	C73 E	6 900	-11.404 106.56	4 2.231	0.83	0.88	PATB 567
ATOM	569	C74 P	6 900	-5.751 105.34	5 15.913	0.58	0.88	PATB 568
ATOM	570	C75 P	6 900	-40.171 102.39	9 34.895	0.67	0.88	PATB 569
ATOM	571	C76 P	6 900	~22.757 110.59	7 58.546	0.67	0.88	PATB 570
ATOM	572	C77 P	6 900	-6.362 70.75	7 4.549	0.00	0.88	PATB 571
ATOM	573	C78 P	6 900	-13.586 107.31	2 1.234	0.58	0.88	PATB 572
ATOM	574	C79 P	6 900	-22.013 110.24	6 55.998	0.75	0.88	PATE 573
ATOM	575	C80 P	6 900	-11.385 84.26	5 23.134	0.92	0.88	PATB 574
ATOM	576	C81 P	6 900	-41.178 100.45	3 33.854	0.58	0.88	PATB 575
ATOM	577	C82 P	6 900	-10.489 106.17	5 4.479	0.67	0.88	PATB 576
ATOM	578	C83 P	6 900	-10.632 105.31	3 23.673	0.92	0.88	PATB 577
ATOM	579	C84 P	6 900	2.696 68.07	6 7.894	0.83	0.88	PATB 578
ATOM	580	C85 P	6 900	~5.960 69.19	3 2.466	0.75	0.88	PATB 579
ATOM	581	C86 P	6 900	-7.463 71.09		0.75	0.88	PATB 580
ATOM	582	C87 P	6 900	-11.986 85.97		0.67	0.88	PATB 581
ATOM	583	C88 P	6 900	-12.588 91.73		0.50	0.00	PATB 582
ATOM	584	C89 P	6 900	-35.299 77.03	4 25.992	0.67	0.00	PATB 583
ATOM	585	C90 P	6 900	-8.725 88.99	2 37.258	0.75	0.00	PATB 584
ATOM	586	C91 P	6 900	-19.999 105.48	2 -6.853	0.83	0.00	PATB 585
ATOM	587	C92 P	6 900	-10.648 102.48	3 24.935	0.75	0.00	PATB 586
MOTA	588	C93 P	6 900	-13.495 87.88	2 33.213	0.50	0.00	PATB 587
ATOM	589	C94 P	6 900	-5.432 81.83	9 42.529	0.00	0.00	PATB 588
ATOM	590	C95 P	6 900	-27.548 89.05		0.00	0.00	PATB 589
ATOM	591	C96 P	6 900	-13.544 77.44	7 19.106	0.83	0.00	PATB 590
ATOM	592	C97 P	6 900	3.297 83.67	2 19.755	0.75	0.00	PATB 591
ATOM	593	C98 P		-21.328 109.95	2 54.813	0.92	0.00	PATB 592
MOTA	594	C99 P		-23.909 112.50	7 42.445	0.67	0.00	PATB 593
ATOM	595	C1 P		-27.190 89.96		0.00	0.00	PATB 594
ATOM	596	C2 P		-13.152 95.07		0.58	0.00	PATB 595
ATOM	597	C3 P		-10.953 101.15		0.67	0.00	PATB 596
ATOM	598	C4 P		2.028 68.05		0.75	0.00	PATB 597
ATOM	599	C5 P		-6.739 107.35		0.83	0.00	PATB 598
" ATOM	_600	C65		-10.801 95.23			0.00	PATB 599
ATOM	601	C7 . P		-39.303 102.92		0.67	0.00	PATB 600
ATOM	602	C8 P		-12.419 79.06		0.67	0.00	PATB 601
ATOM	603	C9 P		-19.979 108.44		0.67	0.00	PATB 602
ATOM	604	C10 P		-9.444 103.03		0.83	0.00	PATB 603
ATOM	605	C11 P		-5.298 105.56		0.00	0.00	PATB 604
ATOM	606	C12 P		-6.601 70.05		0.67	0.00	PATB 605
ATOM	607	C13 P		-25.532 101.42		0.67	0.00	PATB 606
ATOM	608	C14 P		-14.608 103.77		0.00	0.00	PATE 607
ATOM	609	C15 P		-10.076 83.89		0.75	0.00	PATB 608
ATOM	610	C16 P		-28.513 92.82		0.67	0.00	PATB 609
ATOM	611	C17 P		-9.441 84.87		0.92	0.00	PATB 610
ATOM	612	C18 P		-22.028 110.17		0.58	0.00	PATB 611
ATOM	613	C19 P		-3.924 78.05		0.00	0.00	PATB 612
ATOM	614	C20 P		-38.919 102.04		0.58	0.00	PATB 613
ATOM	615	C21 P		-22.970 110.68		0.83	0.00	PATB 614
ATOM	616	C22 P		-34.770 75.08		0.67	0.00	PATB 615
ATOM	617	C23 P			1 -12.819	0.67	0.00	PATB 616
ATOM	618	C24 P		-13.796 106.78		0.67	0.00	PATB 617
ATOM	619	C25 P	7 900	0.795 68.16	4 8.471	0.58	0.00	PATB 618

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